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VOLUME IIIB

SELF-TENSIONING ACOUSTICAL
HORIZONTAL LINE ARRAY
(SPRAY)
DATA ANALYSIS (U)



FINAL REPORT OF BEARING STAKE TESTS

JANUARY THRU MARCH 1976

9 JANUARY 1979

C FILE COPY

PREPARED FOR

NAVAL AIR DEVELOFMENT CENTER WARMINSTER, PENNSYLVANIA

UNDER CONTRACTS
N62269-77-C-0139
and
N62269-78-M-6884



PREPARED BY

SANDERS ASSOCIATES, INC.
OCEAN SYSTEMS DIVISION
95 CANAL STREET
NASHUA, NEW HAMPSHIRE 03061



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SELF-TENSIONING ACOUSTICAL HORIZONTAL LINE ARRAY (SPRAY)

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FINAL REPORT OF BEARING STAKE TESTS

JANUARY THRU MARCH 19 Volume ITIB. Data Points 4, 5 and 6 Raw Data

9 JANUARY 1974

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NAVAL AIR DEVELOPMENT CENTER

WARMINSTER, PENNSYLVANIA 18974

UNDER CONTRACTS
N62269-77-C-0139-

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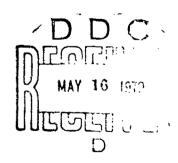
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Classification Reviewed & Approved By

R. C. Townsend

10 Jan 1979 Date

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VOLUME	
IA	Summary - Test Results
IL	Detailed Description, Test Results
rī	Data Analysis Facility and Data Reduction Methodology
IIIA	Data Points 1, 2 and 3 Raw Data
ITTB	Data Points 4, 5 and 6 Raw Data/
IVA	Data Points 7, 8 and 9 Raw Data
IVB	Data Points 10, 11 and 12 Raw Data

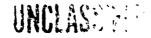


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NOTE ALI Plot Scales for Beamformed and

Omn! Data are NOT the same.

SNR comparisons cannot be taken directly

from plot comparisons.

SUMMARY OF DATA (CONTINUED)

OMNI NOISE LEVELS

		8		m		4	
POINT	N N	POINT Hz	H Z	POINT	H H	POINT	H 2 H 2
DATA	dBreµPa/1 dBreµPa/1	DATA dBreµPa/1	dBreμFa/1	DATA	dBreμPa/1 dBreμPa/1	DATA	dBreµPa/1 dBreµPa/1
	+64.6	+64.7	+65.4		+74.5		+73.3
1977		1977		1977		1977	
19 JANUARY 1977	290 HZ 295 Hz	JANUARY 290 Hz	295 Hz	FEBRUARY	140 Hz 290 Hz	PEBRUARY	140 Hg 290 Hz
19		6		7		7	

+76.6 dBreµPa/1 Hz +68.4 dBreµPa/1 Hz

DATA POINT 5

7 PEBRUARY 1977

140 Hz 290 Hz

SECR

DATA POINT 6	dBrepPa/1 Hz dBrepPa/1 Hz	DATA POINT 7 dBrepPa/1 Hz dBrepPa/1 Hz	DATA POINT 8 dBrepPa/1 Hz dBrepPa/1 Hz	DATA POINT 9 dBreµPa/1 Hz dBreµPa/1 Hz	DATA POINT 10 dBrepPa/1 Hz dBrepPa/1 Hz	DATA POINT 11 dBrepPa/1 Hz dBrepPa/1 Hz
	476.0 468.9	+70.1 +62.2	+67.3	+68.2	+74.2	+70.2
7 PEBRUARY 157"	140 Hz 290 Hz	8 FEBRUARY 1977 140 Hz 290 Hz	15 MARCH 1977 140 Hz 290 Hz	15 MARCH 1977 140 Hz 290 Hz	16 MARCH 1977 140 Hz 290 Hz	16 MARCH 1977 140 Hz 290 Hz

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• OMNI NOISE LEVELS

16 MARCH 1977

DATA POINT 12

140 Hz 290 Hz

dBrepPa/1 Hz

dBrepPa/1 Hz

+72.0 +65.5

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NOISE SPECTRAL DENSITY CALCULATIONS FOR SPRAY/BEARING STAKE

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TIME 10112 (a) NOISE SPECTRAL DENSITY CALCULATIONS FOR SPRAY/BEARING STAKE 18.5 001+ 290 BANDWIDTH CONVERSION TO 1 HZ BAND INDICATED NOISE LEVEL dBV % ABW FREQUENCY CONVERSION TO dBreµPa/13Z SYSTEM SENSITIVITY DATA POINT

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DATE OF ANALYSIS:

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ATTEN: DB WTG: HANNING INTEGRATION TIME 320 SECS DATE/TIME: 2-7-77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEEPING CONTROL: 2-7 - 1019 (/)
OMNI SP_CTRUM(ELEMENT Z
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
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EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ OMNI SPECTPUM (ELEMENT CONTROL: 2-7 -1019 (2

DATE OF ANALYSIS:

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DEG AZ STEERING DATE/TIME: 2-7-77 - 1019 2

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DATE OF ANALYSIS:

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INTEGRATION TIME 320 SECS FILTER

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OMNI SPECTRUM (ELEMENT 14
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
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OMNI SPECTRUM (ELEMENT 2)
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ

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ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING

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DATE/TIME: 2-7-77 -1019 Z
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING

INTEGRATION TIME 320 SECS FILTER

CONTROL: 2-7 -1019 (14)
OMNI SPECTRUM (ELEMENT 29
EXERCISE: BEARING STAKE
CENTER FPEQ: 150 HZ
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OMNI SPECTRUM(ELEMENT 3/ EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ CENTER FREQ: 150 I ELEMENT

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OHNI SPECTRUM(ELEMENT
EXERCISE: BEARING STAKE CENTER FREQ: 150 SECRET

EXERCISE: BEARING STAKE CONTROL: 2-7 -1019 (2000) CENTER FREQ: 1 ELEMENT

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OMNI SPECTRUM(ELEMENT 43)
EXERCISE: BEARING STAKE
CENTER FREQ: 156 HZ

DATE OF ANALYSIS:

DATE/TIME: Z-7-77 -10/P Z
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING

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ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING DATE OF ANALYSIS: OMNI SPECTRUM/ELEMENT 49 EXERCISE: BEARING STAKE CONTROL: 2-7 - 1019 (24 CENTER FRED: /50 HZ

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ATTEN: _ DB WIG: HANNING INDEX 1857 INTEGRATION TIME 320 SECS PILTER REEL: KIS 46 0703 DATE/TIME: 2-7-77 - 1019 2
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STRERING DATE OF ANALYSIS: X.M Trates versee of trates CONTROL: 2-7 - 1019 (24)
OMNI SPECTRUM(ELEMENT 53)
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ
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ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ SECRET

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DEG AZ STEERING CONTROL: 2-7 -1019 (31)
OMNI ? PECTRUM(ELEMENT 10

EXERCISE: BEARING STAKE
CENTER FREQ: 200 HZ
1 ELEMENT

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EXERCISE: BEARING STAKE
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DATE OF ANALYSIS:

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INTEGRATION TIME 320 SECS SECRET

CONTROL: 1019 - 5/ (DP4) OMNI SPECTRUM(ELEMENT 47 EXERCISE: BEARING STAKE CENTER FREQ: 200 HZ

DATE/TIME: 2-7-77 - 10/9 Z
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- DEG AZ STEERING DATE/TIME: 2-7-77

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SIGNAL LEVEL AND SNR

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SIGNAL LEVEL AND SNR

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DATA POINT 4

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+18

-16.4 SIG. LEVEL FOR SNR CALCULATION

+ .7

- 15.7 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

-66.4

+10 -56.4

+18 -38.4 NOIST LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CORRECTION

BANDWIDTH CONVERSION

-16.

38.4 22.0

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SNE HASBAND

8-2 10.5 5

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DATA POINT 4

SIGNAL GAIN

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MEAN OMNI SIGNAL LEVEL	-34.4
MRA SIGNAL LEVEL	-11.2
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DIFFERENCE

ARRAY GAIN

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INDE X/955 INDE X/955 EN:-/Ø DB HANNING	SECRET
REEL: F/S E 320 SECS A FILTER WTG	
INTEGRATION TIM	
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OF ANALYSIS /TIME: Z-7-77 YSIS BANDWID DEG. AZ ST	
7 - 1019 (16) SPECTRUM(ELEMENTS SARING STAKE DATE ANAL TSO HZ TSO HZ	
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INDE X 1953 ATTEN: 78 DB WIG: HANNING SECRE INTEGRATION TIME 320 SECS FILTER REEL: FIS DATE/TIME: 27-77 1019 Z
ANALYSIS BANDWIDTH: 1/10H2
+22 DEG. AZ STEERING DATE OF AMALYSIS: CONTROL: 2-7 - 1019 (12)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ SECRET

46 0703

XM Section to the notes and the

INDE X 1955 ATTEN: 48 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER 46 0703 DATE/TIME: 2.7-72 - 10/9 2
ANALYSIS BANDWIDTH: 1/10HZ
+24 DEG. AZ STEERING DATE OF ANALYSIS: KON 10 X to 1to 1to 100 the to to to to to CONTROL: 2-7 - 1019 (14)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ SECRET

INDE X, 1955 INTEGRATION TIME 320 SECS DATE/TIME: 2-77 - 10/9 Z ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE OF ANALYSIS: +26 CONTROL: 2.7 - 1019 (16.)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
// ELEMENTS

ATTEN: 78 DB WTG: HANNING

INDE X / 855 ATTEN:-/ DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F/S DATE/TIME: 2-7-77 - 1019 2 ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING OF AMALYSIS DATE The months CONTROL: 2-7 - 1019 (16) LEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREG: 150 HZ ELEMENTS SECRET

KON 10 TO THE INCH-7 X 19 INCHES

46 0703

ATTEN: 18 DB WTG: HANNING INDE X 1955 INTEGRATION TIME 320 SECS FILTER REEL: F15 DATE/TIME: 2-7-77 - 1019 2
ANALYSIS BANDWIDTH: 1/10HZ
+29 DEG. AZ STEERING DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 10/9 - 5/ (DP4)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
// ELEMENTS SECRET

INDE X/955 ATTEN: -/ DB DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ +29.5 DEG. AZ STEERING DATE/TIME: 2-7-77 - 1019 2 DATE OF ANALYSIS: CONTROL: 2-7 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
16 ELEMENTS

46 0703

K.E. 10 X 10 TO THE INCH. 7 X 10 INCHES XEUFFEL & ESSER CO MAKINUSA.

K-E 10 X 10 TO THE INCH-7 X 10 INCHES

46 0703

DATE/TIME: 2-7-77 - 1019 2
ANALYSIS BANDWIDTH: 1/10HZ
+30 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2.7.77 CONTROL: 2-7 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
16 ELEMENTS

INTEGRATION TIME 320 SECS FILTER

INDE X1955

ATTEN: -/ & DB WTG: HANNING

ATTEN: -/8 DB WIG: HANNING INDE X 1855 INTEGRATION TIME 320 SECS FILTER REEL: FIS DATE/TIME: 2-7-77 - 10-9 Z
ANALYSIS BANDWIDTH: 1/10HZ
+32 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 - | diq (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ

46 0703

KOM 19 X 10 TO THE INCH-1 X 10 INCHES

KEUFFEL & ESSER CO. MARCH WISA

46 0703

DATE/TIME: 2-7-77 - 10 mg Z ANALYSIS BANDWIDTH: 1/10HZ +34 DEG. AZ STEERING DATE OF ANALYSIS: /~/6 CONTROL: 27 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
16 ELEMENTS

INTEGRATION TIME 320 SECS FILTER

INDE X/155

ATTEN: -/ DB WTG: HANNING

DATE/TIME: 2-7-77 - 1019 Z
ANALYSIS BANDWIDTH: 1/10HZ
+36 DEG. AZ STEFRING DATE OF ANALYSIS: CONTROL: 2-7 -1019 (14)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ

INDE X /855 REEL: FIF

ATTEN: -/ DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

ATTEN: -/ DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: FLS 46 0703 DATE/TIME: 2.7-77 - 1019 2 ANALYSIS BANDWIDTH: 1/10HZ +38 DEG. AZ STEERING DATE OF ANALYSIS: KEUFFEL & ESSER CO MISS IN INCHES CONTROL: 2-7 -1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

INDE X 1955

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INDE X/955 ATTEN: -/ Ø DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F/5 DATE/TIME: 2-7-77 - 10/9 2
ANALYSIS BANDWIDTH: 1/10HZ
+ 40 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 27 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ

46 0703

K-M 10 X 10 TO THE INCH- 1 X 10 INCHES

Kom 15 A to 10 to

46 0703

INTEGRATION TIME 320 SECS FILTER DATE/IIME: 2-7-77 - 1019 Z
AHALYSIS BANDWIDTH: 1/10HZ
+ 20 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
16 ELEMENTS

ATTEN: - / & DB WTG: HANNING

SECREI

46 0703

ATTEN: 18 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: CONTROL: 2-7 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
16 ELEMENTS

SECRET

1

ATTEN:-/8 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ - 1019 DATE/TIME: 2.7-77 BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
// ELEMENTS SECRET

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46 0703

REEL: F15

DATE OF ANALYSIS:

INDE X 1955

INDE X 1855

REEL: F15

K.E. 10 X 19 TO THE PACH - 1 X 19 INCINES

ATTEN: 7/8 DB WTG: HANNING	SECRET.
REEL: F/3 INTEGRATION TIME 320 SECS FILTER	
DATE OF ANALYSIS:	
CONTROL: 2-7 -1019 (11) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 270-HZ	

INTEGRATION TIME 320 SECS FILTER 46 0703 DATE/TIME: 2.7.77 - 10/9 2
ANALYSIS BANDWIDTH: 1/10H2
+28 DEG. AZ STEERING DATE OF ANALYSIS: KM 10 X 16 TO THE INCHES X 16 INCHES CONTROL: 2-7 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ

INDE X /955

ATTEN: -/ & DB WTG: HANNING

INDE X1955 ATTEN:-/B DB WTG: HANNING	SECRE	
REEL: FIS INTEGRATION TIME 320 SECS FILTER		
DATE OF ANALYSIS:		
CONTROL: 2-7 - 1019 (14) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 270 H2		

INDE X /955 ATTEN: / DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ +29.5 DEG. A7 STFFFF DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2.7-77 CONTROL: 10/9 - 5/ (bev)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
// ELEMENTS

K-M 19 X to TO THE INCHALL & SAMES

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ATTEN:-/ # DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER 430 DEG. AZ STEERING DATE OF ANALYSIS: TIME: 2-7-77 EXEPTISE: BEARING STAKE CENTER FREQ: 270 HZ

SECRET

INDE X 1955 ATTEN: -/ DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7-77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
+32 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 - 1019 (16)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
// ELEMENTS INDE X 1955 ATTEN: -/ # DB WIG: HANNING SECRET INTEGRATION TIME 320 SEGS EXERCISE: BEARING STAKE GENTSP PREO: 370 HZ RLEMENTS SECRET

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CONTROL: 2-7 - 16 EEAMFORMED SPE EXERCISE: BEARI CENTER FREQ: 22 16 ELEMENTS		• •
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DATE OF ANALYSIS:

INDE X 1955

ATTEN: -/8 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER DATE/TIME 2-7-72 - 10/9 Z ANALYSIS ANDWIDTH: 1/10HZ + 40 DEC. AZ STEERING CONTROL: 2-7 - 1019 (14)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ

SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 4

FREQUENCY /+O HZ

NUMBER OF ELEMENTS 32

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

-29.0 +10

- 5.0 SIG. LEVEL FOR SNR CALCULATION

-4.8 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-52 SIGNAL LEVEL INDIGATED

MCDS-32 CAL. CORRECTION

BEUMFORMER GAIN

+10

-24.9 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CORRECTION

BANDWIDTH CONVERSION

16.1 GNR 11. HZ BAND

Best Available Copy

SIGNAL LEVEL AND SNR

CALCULATIONS

TA POINT 4

FREQUENCY 290 HZ

NUMBER OF ELEMENTS 32

SIGNAL LEVEL

MOPS-52 SIGNAL LEVEL INDICATED

Sand William Pharties thoughtan

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

-47.4

+10 -37.4

+24 -/3.4 SIG. LEVEL FOR SNR CALCULATION

-12.5 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-52 SIGNAL LEVEL INDICATED

MCDS-32 CAL. CORRECTION

BEAMFORMER GAIN

-68.8

+10 -58.8

+24 -34.8 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CORRECTION

BANDWIDTH CONVERSION

- /3.

34.8 21.4

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+ .9 18.3

-8-2 10.1

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POINT 4

SIGNAL GAIN

MEAN OMNI SIGNAL LEVEL

MRA SIGNAL LEVEL

20 LOG 32

ARRAY SIGNAL GAIN

of elements

140 113 -34-4

29.2

DIFFERENCE

27.1

-3.0

ARRAY GAIN

MRA SNR

MEAN OMNI SNR

DIFFERENCE

ARRAY GAIN

THEORETICAL AMMUTH GAIN

(at MRA)

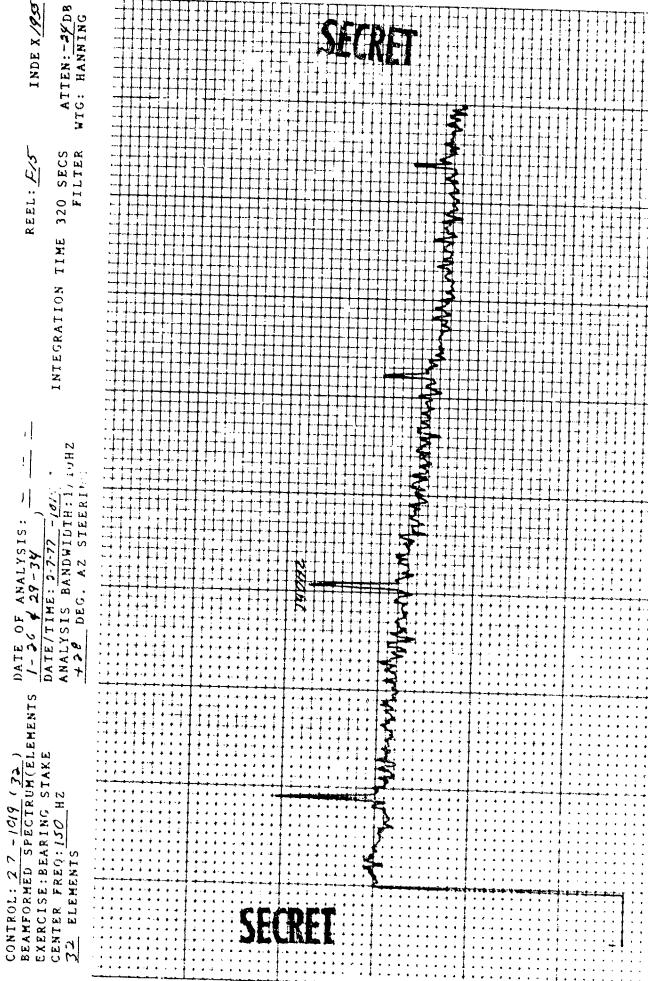
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INDE X 1955 ATTEN: -24DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7-77 - 1019 2
ANALYSIS BANDWIDTH: 1/10HZ
+26 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2.7-77 CONTROL: 2-7 - 10/9 (33)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS



46 0703

KON 10 X 10 TO THE INCH . Y 10 MARS

K-W 10 x 16 TO THE INCH-: F CINCHES

46 0703

INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ +30 DEG. AZ STEERING - 1014 DATE OF ANALYSIS: DATE/11HE: 2-7-77 72-34 CONTROL: 2-7 - 10/9 (72)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

SECRET

REEL: FYS

INDE X /955

ATTEN: DB WIG: HANNING

INDE X 1855

REEL: F/S

K-X 10 X 10 TO THE INCH-7 X 10 INCHES

INDE X /853	ATTEN: -3y DB WTG: HANNING	
REEL: F/S	_Nfegration TIME 320 SECS FILTER	
DATE OF ANALYSIS:	1-36 \$ 39-34) DAIE/TIME: 2-7-77 - 1019 2 AN/LYSIS BANDWIDTH:1, 10H	
CONTROL: 25 - 1019 (32)	BEAMPORMED SPECTRUM ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ	

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CONTROL: 27 - 1019 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS

DATE OF ANALYSIS: 1-26 & 29-34

INDE X 1955 ATTEN: -2 Y DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F15 DATE/TIME: 2-7-77 - 1019 Z
ANALYSIS BANDWIDTH: 1/10HZ
+3/-5 DEG. AZ STEERING DATE/TIME: 2-7-17

ANALYSIS BANDWIDTH: 1/10HZ
+32 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 2-7 - 10/9 (3-)
BEAHPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS

REEL: FIS

ATTEN: -24 DB WTG: HANNING INDE X/955 INTEGRATION TIME 320 SECS FILTER

	INTEGRATION		
DATE OF ANALYSIS: _ = = =	DATE/TIME: 2-7-77 -1019 2	ANALYSIS BANDWIDTH: 1/10HZ	+323 DEG AZ STEERING
CONTROL: 2-7 - 1019 (32) BEAMFORMED SPECTRUM(ELEMENTS	EXERCISE: BEARING STAKE	CENTER FREQ: 150 HZ	32 ELEMENTS

REEL: F/S INDE X/957

[EGRATION TIME 320 SECS ATTEN: - 14 DB
FILTER WIG: HANNING

SECRET

CONTROL: 2-7 -10/9 (71)

BEAMFORMED SPECTRUM(ELEMENTS 1-26 4 29-34)

EXERCISE: BEARING STAKE

CENTER FREQ: 150 HZ

ANALYSIS BANDWIDTH: 1/10HZ

32 ELEMENTS

INTEGRATION TIME 320 SECS FILTER W

REEL: FLS INDE X 1855

ATTEN: -2 YDB

REEL: F15 DATE/TIME: 2-7-77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
+35.5 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 -1619 (32)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: (50 HZ

INDE X 1855 ATTEN: -24 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

DATE/TIME: 3-7-77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
+35 DEG. AZ STEERING CONTROL: 2-7 - 1019 (32)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS

DATE OF ANALYSIS:

INTEGRATION TIME 320 SECS FILTER

INDE X 1855 REEL: FIS

ATTEN: -2%DB

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INDE X/955 ATTEN: -27 DB G: HANNING	
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CONTROL: 2-7 BEAMFORMED S EXERCISE: BEA CENTER FREQ: 32 ELEMENTS	
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INDE X 1953 ATTEN: - 2 PDB WTG: HANNING INTEGRATION TIME 320 SECS FILTER DATE/TIME: 3-7-77 - 15/9 Z ANALYSIS BANDWIT, TH: 1/10HZ DEG. AZ STEERING 1-26 + 39-34 DATE/TIME: 3-7-77 CONTROL: 2-7 - 1019 (FL)

BEAMFORMED SPECTRUM(ELEMENTS

EXERCISE: BEARING STAKE

CENTER FREQ: 150 HZ

32 ELEMENTS

INTECPATION TIME 320 SECS FILTER PEEL: FIS 46 0703 ANALYSIS BANDWIDTH: 1/10HZ CONTROL: 2.7 - 1019 (72.) BEAMPORMED SPECTPUM(FLEMENTS EXERCISE: BEARING STAKE 72 ELEMENTS SECRET

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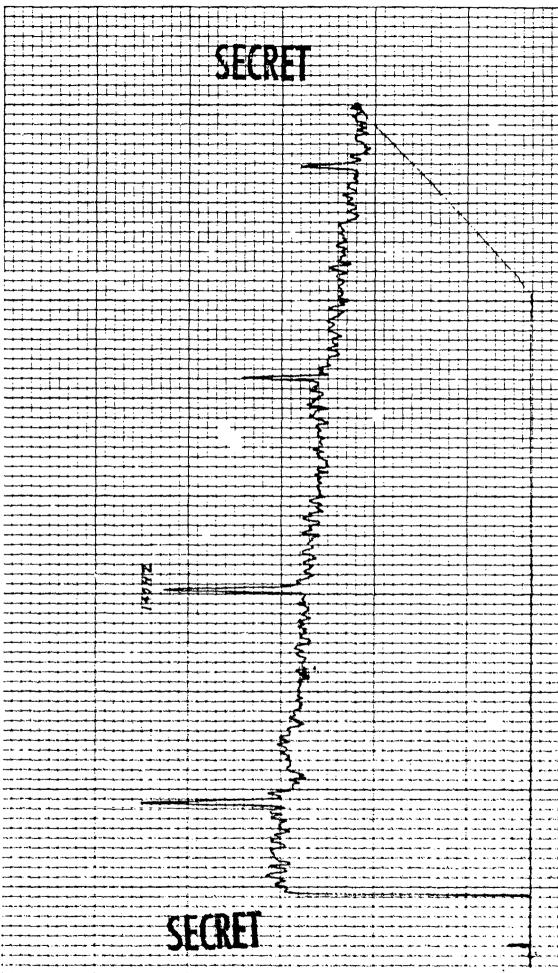
INDE X 1955

ATTEN: - 3% DB WIG: HANNING

DATE/IIME: 2.397 - 10/4 Z ANALYSIS BANDWIDTH: 1/10/4Z +36.5 DEG. AZ STEERING DATE OF ANALYSIS: AC-42 + 21-1 CONTROL: 1019 - 5/ (DP4)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32. ELEMENTS

INTEGRATION TIME 320 SECS FILTER

ATTEN: 2% DB WTG: HANNING INDE X/855 REEL: F15



9-520

CONTRCL: 2-7 -1019 (3.2.)
BEAMFCRMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTZR FREQ: 150 HZ
32 ELEMENTS

INDE X 1955 ATTEN: -2% DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER

A CONTRACTOR OF THE SECOND

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CONTROL: 2-7 - 1019 (32)

BEAMFORMED SPECTRUM(ELEHENTS 1-26 4 39-39

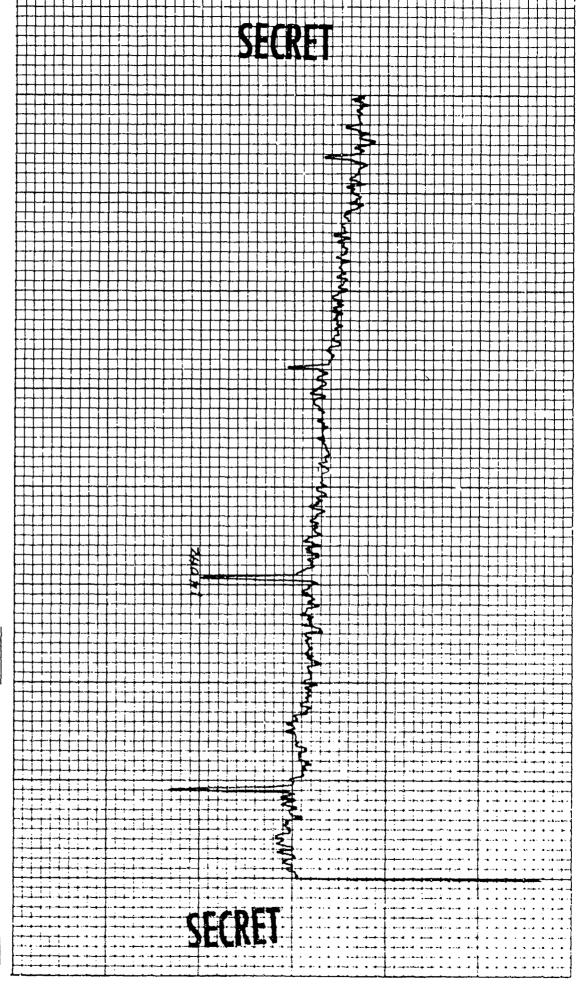
EXERCISE: BEARING STAKE

CENTER FREQ: 150 HZ

ANALYSIS BANDW

32 ELEMENTS

INTEGRATION TIME 320 SECS ATTEN: -2/F DB FILTER WIG: HANNING



INDE X 1955 ATTEN: -4/2 DB WIG: HANNING INTEGRATION TIME 320 SECS The transfer of the transfer o DATE/TIME: 3-7 -77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
++1 DEG. AZ SIEERING DATE OF ANALYSIS: CONTROL: 2-7 - 10/9 (32) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEAR; 1G STAKE 32 ELEMENTS SECRET

INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING 6101 -DATE OF ANALYSIS: 1- 26 \$ 29-34 DATE/TIME: 3-7-77 CONTROL: 2-7 - 1019 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS

INDE X 1955

ATTEN: -2 DB WTG: HANNING

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DATE/TIME: 2-7-77 - 1018 Z
ANALYSIS BANDWIDTH: 1/10HZ
724 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 27 -10'9 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
32 ELEMENTS

INTEGRATION TIME 320 SECS FILTER

ATTEN: ~2 Y DB WTG: HANNING

INDE X/855

INDE X / 855 ATTEN:-2% DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F15 ANALYSIS BANDWIDTH: 1/10HZ -1019 1 DATE OF ANALYSIS: DATE/TIME: 3-7-77 CONTROL: 2-7 -1019 (32) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 270 HZ
32 ELEMENTS

CONTROL: 2-7 - 1019 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
32- ELEMENTS

INDE X/955

INTEGRATION TIME 320 SECS FILTER

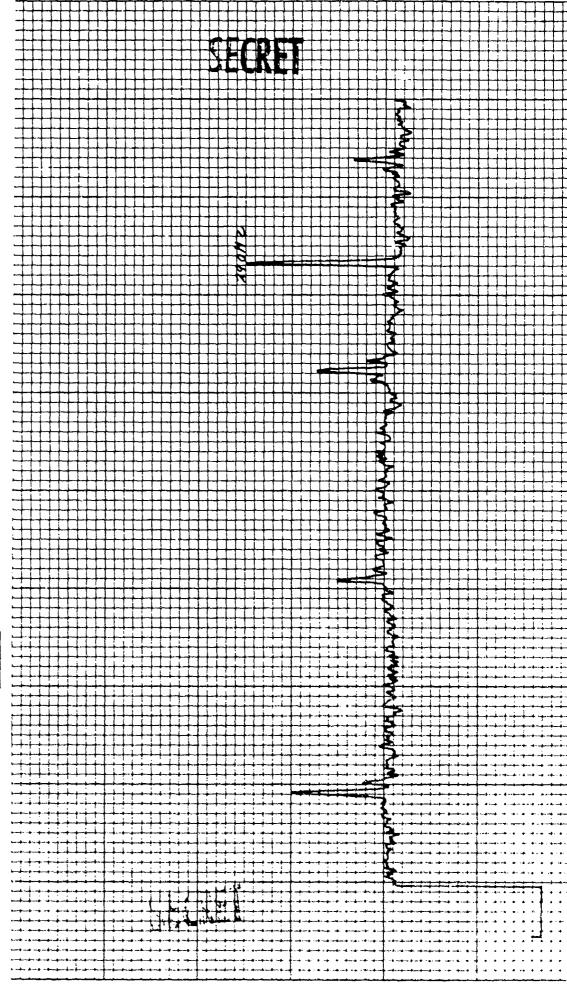
ATTEN: -2KDB WTG: HANNING

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REEL: FIS	INTEGRATION TIME 320 SECS	V7171 *
DATE -	DATE/TIME: 2-7-77 - 10/9 2 ANALYSIS BANDWIDTH: 1/10HZ	TSO DEG. AZ STEERING
CONTROL: 2-7 - 10/f (32) BEAMFORMED SPECTRUM(ELEMENTS	CENTER FREQ: 270 HZ	

INDE XIESS

CENTER FREQ: 770 HZ 32 ELEMENTS	DATE/TIME: 2-7-77 - 10/9 Z ANALYSIS BANDWIDTH: 1/10HZ +30 DEG. AZ STEERING	INTEGRATION TIME 320 SECS ATTEN: - 3 y DB FILTER WIG: HANNING
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INDE X 1955 ATTEN: 2% DB WIG: HANNING SECRE INTEGRATION TIME 320 SECS PILTER REEL: FIS DATE/TIME: 2-7-77 - 1019 Z
ANALYSIS BANDWIDTH: 1/10HZ
+31.5 DEG. AZ STEERING DATE OF ANALYSIS: 1-264 29-34 CONTROL: 27 - 1019 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE 32 ELEMENTS

32

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K-E 10 X 10 TO THE INCH+7 X 10 INCHES

CONTROL: 27 - 10/9 (31)

BEAMFORMED SPECTRUM(ELEMENTS

EXERCISE: BEARING STAKE

CENTER PREQ: 275 HZ

32 ELEMENTS

DATE/TIME: 2-7-77 - 1019 Z
ANALYSIS BANDWIDTH: 1/10HZ
+32-5 DEC. AZ STEERING DATE OF ANALYSIS:

REEL: FIS

INDE X/855

ATTEN: -2% DB WTG: HANNING

INTEGRATION TIME 320 SECS

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INDE X 1855 ATTEN: -24 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F15 DATE/TIME: 2-7-77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
34 DEG. AZ STEERÍNG OF ANALYSIS: DATE O CONTROL: 2-7 - 1049 (J2)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 370 HZ
32 ELEMENTS

INDE X 1953 ATTEN: - 1 F DB WTG: HANNING	SECRET	
REEL: FIZ ATION TIME 320 SECS FILTER		
INTEGRATION I/10HZ		
DATE OF ANALYSIS: / - 26 & 39-74 DATE/TIME: 2.7-77 - 10/9 Z ANALYSIS BANDWIDTH: 1/10HZ +35 DEG. AZ STEERING		
EMENTS E		
COMTROL: 2-7 - 1019 (32) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 270 HZ 32- ELEMENTS		

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INDE X 1855 ATTEN: 28 DB WTG: HANNING	<u>╘╼╌┼╼┼╌┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼</u> ┼ ╏╏╏ ┩┛┩┩
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CONTROL: 2-7 -1019 (32)

BEAHFORMED SPECTRUM(ELEMENTS 1-26 4 39-34)

EXERCISE: BEARING STAKE

ANALYSIS BANDWIDTH: 1/10HZ

ANALYSIS BANDWIDTH: 1/10HZ

22 ELEMENTS

REEL: F/5 INDE X 1855

INTEGRATION TIME 320 SECS ATTEN: AFDB FILTER WIG: HANNING

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INTEGRATION TIME 320 SECS PILTER REEL: F15 DATE/TIME: 2-7-77 - 1619 2
ANALYSIS BANDWIDTH: 1/10HZ
+36.5 DEG. AZ STEERING DATE OF ANALYSIS 1-26 \$ 29.34 DATE/TIME: 2-7-77 CONTROL: 1019 - 5/ (DP4)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 270 HZ

ATTEN: 24 DB WTG: HANNING

INDE X 1955

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+ 2e-1 CCNTROL: 2-7 - 1019 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
32 ELEMENTS

DATE/TIME: 2-7-77 - 10/9 2
ANALYSIS BANDVIDTH: 1/10H2
+37 DEG. AZ STEERING DATE OF ANALYSIS:

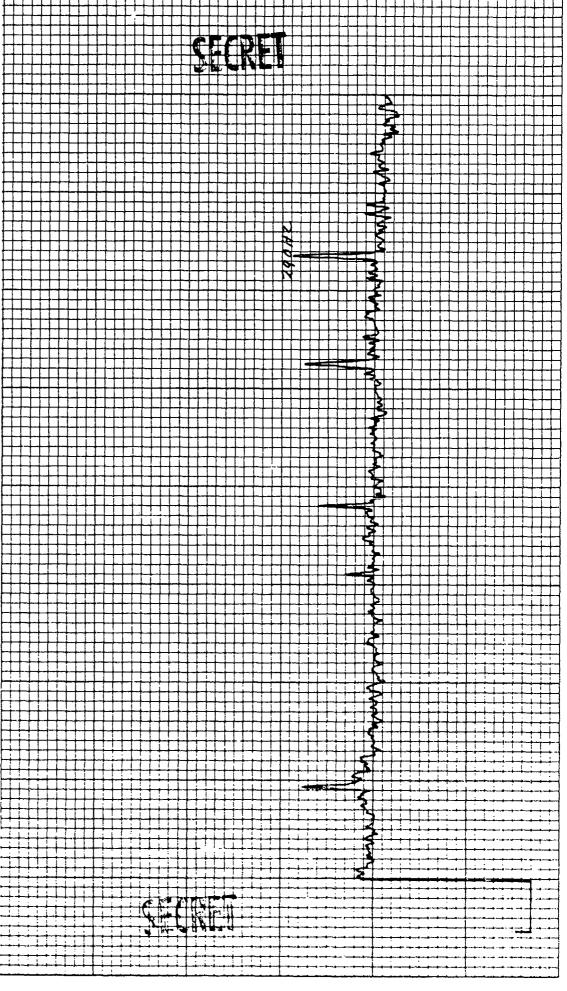
REEL: FIS

INDE X 1955 ATTEN: -24 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

DATE OF / CONTROL: 2-7 - 10/9 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 470 HZ
32 ELEMENTS

DATE/TIME: 3.7-77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
+38 DEG. AZ STEERING F ANALYSIS:

ATTEN: -2/ DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER



ANALYSIS BANDWIDTH: 1/10HZ \$101-DATE OF ANALYSIS: 1-36 & 39-34 DATE/TIME: 3-7-77 CGNTROL: 2-7 - 1019 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAFE
CENTER FREQ: 270 H2
32 ELEMENTS

INTEGRATION TIME 320 SECS PILIER

INDE X 1855

ATTEN: -2K DB WTG: HANNING

SECRET

INDE X 1833 INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7-77 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
+42 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2.7 - 1019 (32)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
32 ELEMENTS

ATTEN: -2 YDB WTG: HANNING

INDE X1955 INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ
+44 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 - 10/9 (33) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 270 HZ

ATTEN: -2% DB WTG: HANNING

CONFIDENTIAL

SIGNAL LEVEL AND SNR CALCULATIONS

DATA POINT 4

FREQUENCY 140 HZ NUMBER OF ELEMENTS 51

SIGNAL LEVEL

 MCPS-32 SIGNAL LEVEL INDICATED
 -42.4

 MCPS-32 CAL. CORRECTION
 +16
 -32.4

 BEAMFORMER GAIN
 +36
 - 2.4 SIG. LEVEL FOR SAR CALCULATION

 MRA CORRECTION
 + .2
 - 2.2 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

 MCPS-59 DIGNAL LEVEL INDICATED
 -/3.6

 MCPS-32 CAL. CORRECTION
 +10
 -53.6

 BEAMFORMER GAIN
 +30
 -23.6
 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-MOISE-RATIO

SIGNAL LEVEL FOR SAR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CORRECTION

BANDWIDTH CONVERSION

-2.4 -23.6 21.2 -4.0 17.2 + .2 17.4 SWR YWHZ BAND -8-2 9.2 SWR I HZ BAND

CONFIDENTIAL

CONFIDENTIAL

SIGNAL LEVEL AND SMR

CALCULATIONS

DATA POINT 4

FREQUENCY 290 HZ NUMBER OF ELEMENTS 57

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED -5/-9

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

+10 -41.9

+30 -//-9 SIG. LEVEL FOR SNR CALCULATION

MRA CORRECTION

+ .8 -//./ SIG. LEVEL FOR SIGNAL GAIN

Notse Level

MCPS-52 SIGNAL LEVEL INDICATED

MODS-32 CAL. CORRECTION

BEPERORMER GAIN

-31.4 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SAR

-31.4 19.5 -4.0 15.5 + .9 /6.3 SAR %, HZ BOND -8.2 8./ SAR I HZ BAND

PROCESSOR CORRECTION

MRA CORRECTION

BANDWIDTH CONVERSION

CONFIDENTIAL

CONFIDENTIAL

DATA POINT 4

SIGNAL GAIN

DIFFERENCE

140 HZ 290HZ 295113 MEAN OWNI SIGNAL LEVEL -31.4 -39.6 -11-1 MRA SIGNAL LEVEL 28.5 ARRAY SIGNAL GAIN 20 LOG 51 34.1 34.1 # of elements -1.9 -5.6

ARRAY GAIN

MRA SNR	17.6	16.3	
MEAN OMNI SNR	3.3	6.5	*************
ARRAY GAIN	9.3	9.8	***************************************
THEORETICAL AZMUTH GAIN (at MRA)	14.8	17.1	
DIFFERENCE	- 5.5	- 7.3	

CONFIDENTIAL

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INDE X/853	ATTEN: -30 DB WTG: HANNING					S														
REI	TON TIME 320 SECS FILTER												THE PROPERTY OF THE PARTY OF TH							
DATE OF I DATE/TI	ANALYSIS BANDWIDTH: 1/10HZ																			
CONTROL: 2-7 - 1019 (51) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE	S ELEMENTS					5		R												L. ************************************

K-B 10 X 10 TO THE INCH + 7 X 10 INCHES

46 0703

ATTEN: -2 DB WTG: HANNING INDE X/955 INTEGRATION TIME 320 SECS FILTER REEL: F15 DATE/TIME: 2-7-72 -1019 Z ANALYSIS BANDWIDTH: 1/10HZ CONTROL: 2-7 - 1019 (51)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER FREC: 150 HZ ELEMENTS

SECRET

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3.4.6

DATE/TIME: 2-2-77 - 1019 2
ANALYSIS BANDWIDTH: 1/10HZ
+29 DEG. AZ STEERING DATE OF ANALYCIS: CONTROL: 2-7 - 1019 (51)
BEAMFORMED SPECTRUM(TLEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ

REEL: FIS

INDE X/955

INTEGRATION TIME 320 SECS FILTER WI

O SECS ATTEN:-30 DB FILTER WIG: HANNING

DATE/TIME: 2.7-77 - 1019 Z
ANALYSIS BANDWIDTH: 1/10HZ
+30 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 - 10/9 (5/)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ

INTEGRATION TIME 320 SECS ATTEN:-30DB FILTER WIG: HANNING

INDE X/655

REEL: F15

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DATE OF ANALYSIS: CONTROL: 2-7 - 1019 (S/)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ
5/ ELEMENTS

DATE/TIME: 2-7-77 - 10/9 Z ANALYSIS BANDWIDTH: 1/10HZ +3/ DEG. AZ STEERING

ATTEN:-30 DB WTG: HANNING INDE X 1955 INTEGRATION TIME 320 SECS

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ANALYSIS: DATE OF CONTROL: 2-7 - 1019 (51)
BEAMFORMED SPECTRUM(ELEMENTS

DATE/TIME: 2-7-77 -1019 Z
ANALYSIS BANDWIDTH: 1/10HZ
+31.5 DEG. AZ STEERING

INTEGRATION TIME 320 SECS FILTER

INDE X /955

ATTEN: 30 DB WTG: HANNING EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

DATE/TIME: 2-7-77 - 10/9 Z ANALYSIS BANDWIDTH: 1/10HZ +32 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 2-7 - 10/9 (5/1)
BEAMFORMED S/ECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
\$1 ELEMENTS

INTEGRATION TIME 320 SECS FILTER

INDE X/955

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ATTEN: 30 DB WTG: HANNING INDE X/955 SECRET INTEGRATION TIME 320 SECS PILTER DATE/TIME: 2-7-77 - 1019 Z ANALYSIS BANDWIDTH: 1/10HZ CONTROL: 2-7 - 1019 (5/) BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ 6/ ELEMENTS SECRET 9

46 0703

X-M 19 / 15 TO THE DIGHT / 15 / July

ATTEN: -3cDB WTG: HANNING INDE X/255 INTEGRATION TIME 320 SECS FILTER REEL: FS/ ANALYSIS BANDWIDTH: 1/10HZ +25.5 DEG A7 CTTT-DATE OF ANALYSIS: CONTROL: 2-7 - 10/9 (5/)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ SECRET

46 0703

K-M 19 x 10 TO THE INCH- 1 of inches

DATE OF ANALYSIS:

1-26 & 29-53

DATE/TIME: 2-7-77 - 10/9 2

ANALYSIS BANDWIDTH: 1/10HZ
+36 DEG. AZ STEERING CONTROL: 1019 - 5/ (bP4)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ
5/ ELEMENTS

INTEGRATION TIME 320 SECS FILTER

REEL: F/S

INDE X /955

ATTEN: 30 DB WTG: HANNING

TTEN: - 20 DB INDE X/955 INTEGRATION TIME 320 SECS PILTER REEL: F15 DATE/TIME: 2-7-22 - 10/9 Z
ANALYSIS BANDWIDTH: 1/10HZ
+37 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: Z-7 - (6/9 (5/1)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
5/ ELEMENTS

46 0703

K-S 10 X 10 TO THE INCH-7 X 10 INCHES

INDE X/855 ATTEN:-Fø DB WTG: HANNING INTEGRATION TIME 320 SECS REEL: F/S ANALYSIS BANDWIDTH: 1/10HZ 2 6101-DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 2-7 -1014 (51)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
51 ELEMENTS

ANALYSIS BANDWIDTH: 1/10HZ

+ 40 DEG. AZ STEERING DATE OF 1-26 CONTROL: 2-7 - 1019 (5/)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STARE
CENTER FREO: 160 HZ

INTEGRATION TIME 320 SECS FILTER

INDE X 1955

REEL: FIS

ATTEN:-30 DB WIG: HANNING

ANALYSIS BANDWIDIH: 1/10HZ +42 DEG. A7 CTTTT OF ANALYSIS 1-26 BEAMPORMED SPECTRUM(ELEMENTS 1 EXERCISE: BEARING STAKE DECENTER FREQ: 150 HZ AN

27. 177

INDE X/955

INTEGRATION TIME 320 SECS ATTEN: -30 DB FILTER WIG: HANNING

SECRE SECRET

Market Barrell

or design to

46 0703

K-B 10 X 10 THE INCH+1 X 10 INCHES

DATE/TIME: 2-7-77 - 10/9 2
ANALYSIS BANDWIDTH: 1/10HZ
+ 2 DEC. AZ STEERING DATE OF ANALYSIS: CONTROL: 3-7 - 10/9 (5/2)
BEAMFORMED SPECTRUM(FLEMENTS EXERCISE: BEARING STAKE CINTER FREQ: 270 HZ

5/ ELEMENIS

INDE X/955

ATTEN: -30 DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER

INDE X/955	ATTEN:-30 DB WTG: HANNING
REEL: FIS	INTEGRATION TIME 320 SECS FILTER
DATE OF ANALYSIS:	DATE/TIME: 3.7-77 - 10/9 Z ANALYSIS BANDWIDTH: 1/10HZ +34 DEG. AZ STEERING
CONTROL: 2.7 - 1011 (51) BEAMFORMED SPECIRUM (ELEMENTS	EXERCISE: BEARING STAKE CENTER FREQ: 270 HZ

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K-M 12 X 10 TO THE INCH-1 X 10 INCHES

46 0703

CONTROL: 2-7 - 1019 (SL)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER FREQ: 270 HZ \$ / ELEMENTS

DATE/TIME: 3-7-72 - 10/9 2
ANALYSIS BANDWIDTH: 1/10HZ
+36 DEG. AZ STEERING DATE OF ANALYSIS:

REEL: FIS

INDE X 1955

INTEGRATION TIME 320 SECS FILTER

ATTEN:-70 DB WIG: HANNING

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1 DATE/TIME: 3-7-77 - 1019 Z ANALYSIS BANDWIDTH: 1/10HZ +39 DEG. AZ STEERING DATE OF ANALYSIS CONTROL: 2-7 - 1019 (S/)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
S/ ELEMENTS

REEL: FIS

INDE X/855

INTEGRATION TIME 320 SECS

ATTEN: -3 o DB WTG: HANNING

SECRET

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INDE X/855	ATTEN:-30 DB WTG: HANNING
REEL: FYS	INTEGRATION TIME 320 SECS FILTER
DATE OF AN	
CONTROL: 2-7 - 1019 (5/) BEAMPORMED SPECTRUM(ELEMENTS	EXERCISE: BEARING STAKE CENTER PREQ: 220 HZ

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DATE OF ANALYSIS: CONTROL: 2-7 - 1011 (51)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
51 ELEMENTS

1- > 6 4 29-53)

DATE/TIME: 2-7-77 - 1019 Z

ANALYSIS BANDWIDTH: 1/10HZ

+32 DEC. AZ STEERING

ATTEN:-30 DB WIG: HANNING INDE X/955 INTEGRATION TIME 320 SECS FILTER

CONTROL: 2-7 - 101f (5/)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 270 HZ

ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE OF ANALYSIS: 1-20 \$ 29-53 DATE/TIME: 2-7-77 -434

INDE X /955

ATTEN: -30 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

46 0703

REEL: F15

INDE X/955

INTEGRATION TIME 320 SECS FILTER

ANALYSIS BANDWIDTH: 1/10HZ

DATE OF ANALYSIS: DATE/TIME: 2-7-77

CONTROL: 2-7 - 1019 (51)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 370 HZ
5 1 ELEMENTS

ATTEN:-30 DB WTG: HANNING

ATTEN: -30 DB WTG: HANNING INDE X/955 INTEGRATION TIME 320 SECS FILTER REEL: FIS ANALYSIS BANDWIDTH: 1/10HZ +35.5 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2.7 - 10/9 (5/2)
BEAMFORMED SPECTRUM (ELEMENTS
EXERCISE: BEARING STAKE
CENTER FRED: \$720 HZ
\$\xi\$ ELEMENIS SECRET

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K-B JON 10 TO THE INCHES ASSESSED

BEAMFORMED SPECTRUM(ELEMENTS EXERCISE:BEARING STAKE	EMENTS 1-36 4 38-53)	C. TO CO. TWITH W. IT A GOTT THE	
Parte pheno 474 st		THIEGRALLON LIME 320 SECS	
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	+36 DEG A7 STEEDING		

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KON 10 THE INCH + 7 X 10 INCHES KEUFFEL & ESSER CO. MANGIN USA.

46 0703

INTEGRATION TIME 320 SECS

INDE X/955

ATTEN:-30 DB WTG: HANNING

CONTROL: 2-7 - 1019 (\$\varepsilon 1\$)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
\$\varepsilon 1\$ ELEMENTS

DATE/TIME: 2-7-7: -1014 Z
ANALYSIS BANDW JTH: 1/10HZ
+38 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 - 1019 (51)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 270 HZ

INTEGRATION TIME 320 SECS FILTER

INDE X 1855 ATTEN: -30DB WTG: HANNING REEL: F15

K-E 10 X 10 TO THE INCH-7 X 10 INCHES

46 0703

DATE/TIME: 2-7-77 - 1019 Z ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE OF ANALYSIS: 140 CONTROL: 2-7 - 1019 (51)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 170 HZ
51 ELEMENTS

INTEGRATION TIME 320 SECS FILTER

ATIEN:-Jo DB WTG: HANNING

INDE X1855

ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE/TIME: 2-7-77 - 1019 CONTROL: 2-7 -1014 (51)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
51 ELEMENTS

DATE OF ANALYSIS:

ATTEN:-30 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

INDE X 1955

INDE X/955 ATTEN:-30 DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER 46 0703 ANALYSIS BANDWIDTH: 1/10HZ DATE/TIME: 2-7-77 - 1019 Z DEG. AZ STEERING DATE OF ANALYSIS: H.E 10 X 10 TO THE INCH . 7 X 19 INCHES カカナ CONTROL: 2-7 - 1019 (51)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 220 HZ
51 ELEMENTS

7.76+

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+8.2

BANDWIDTH CONVERSION TO 1 HZ BAND

CONVERSION TO dBreµPa/1HZ

TIME 15492		-+3.6	- (-/2) = -3/. C
DATA FOINT 5 DATE 2-7-77	FREQUENCY 140 HZ	INDICATED NOISE LEVEL dBV ".	SYSTEM SENSITIVITY dB/µB

NOISE SPECTRAL DENSITY CALCULATIONS FOR SPRAY/BEARING STAKE

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TIME 1549Z NOISE SPECTRAL DENSITY CALCULATIONS FOR SPRAY/BEARING STAKE 2-7-77 DATE N

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FREQUENCY

DATA POINT

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39,8 - 47.8 (8-)-INDICATED NOISE LEVEL dBV 1/10 ABW dB/µB SYSTEM SENSITIVITY

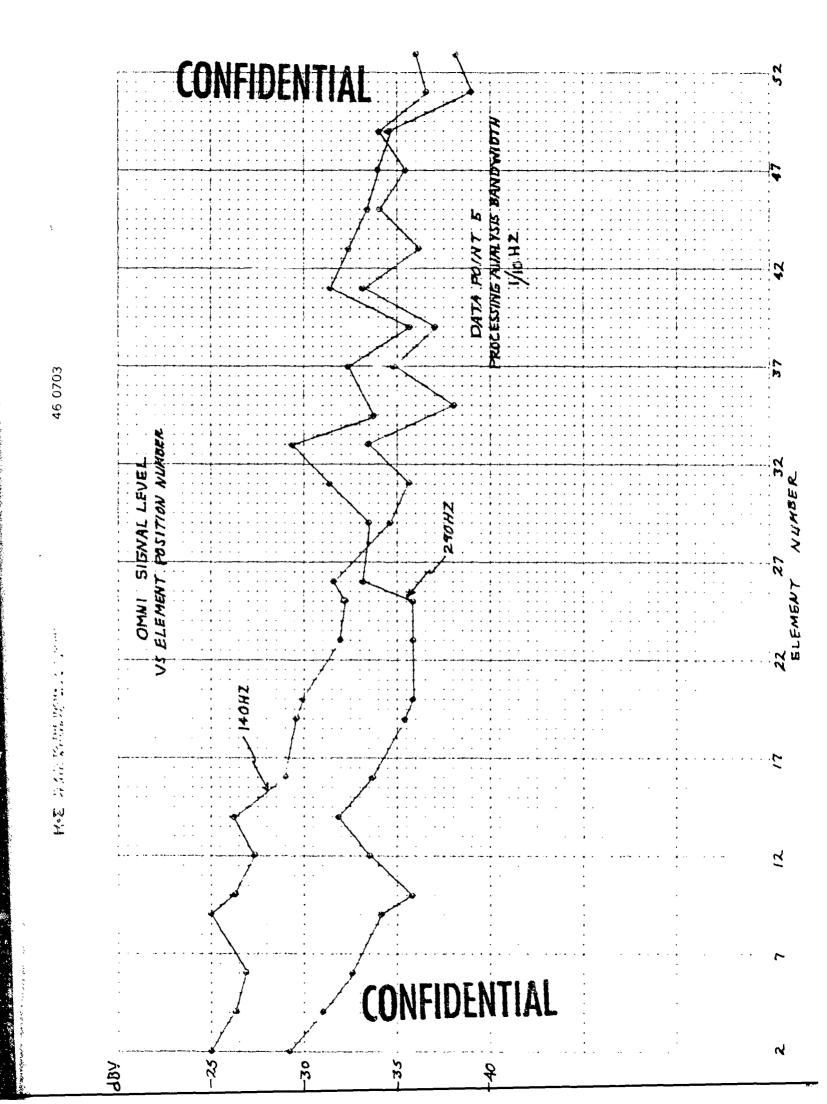
CONVERSION TO dBreµPa/1HZ

BANDWIDTH CONVERSION TO 1 HZ BAND

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REEL: FI

DATE OF ANALYSIS:

CONTROL: 2.7 -1549 (1)

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大學 人名英格兰斯斯

ATTEN: DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-72 -/544 Z
ANALYSIS BANDWIDTH: 1/10HZ
DEC AZ STEERING EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ SECRET

INDEX Jose

DATE OF ANALYSIS:

CONTROL: 2.7 - 1549 (2)
OMNI SPECTRUM (ELEMENT

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ATTEN: - DB WTG: HANNING SECRE INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 1544 Z ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING EXERCISE: BEARING STAKE CENTER FREQ: 1 ELEMENT SECRE

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OMNI SPECTRUM (ELEMENT

DATE OF ANALYSIS:

INDEX 3050

REEL: F19

ATTEN: DB WTG: HANNING

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DATE		DATE	ANAL		
CONTROL: 2-7 -1549 (6)	OMNI SPECTRUM(ELEMENT 12)	EXERCISE: BEARING STAKE	CENTER FREQ: 150 HZ	I ELEMENT	

	DATE OF ANALYSIS: DATE/TIME: Z-7-77 - 1544 Z ANALYSIS BANDWIDTH: 1/10HZ DEC AZ STEERING	Z / 10HZ / 1NG	
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EXERCISE OF SECTION OF	EXERCISE: BEAPING STAKE CENTER FREG: 150 HZ	ANALYST ANALYS	2-72 -1549 Z NDWIDTH: 1/1942 72 SIEBRING	INTESPATION TIME 320 SECS	ATTEN: DB
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CONTROL: 2-7 - 1549 (12)
OMNI SPECTRUM (ELEMENT 24) EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ 1 ELEMENT

DATE OF ANALYSIS:

DATE/TIME: 2.7-77 -/549 Z ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING

REEL: F19

INDEXJOSO

ATTEN: DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

OMNI SPECTR EXERCISE: BE CENTER FREQ I ELEMENT		DALE OF ANA	LYSIS:	REEL		INDEX 3030
1	UM(ELEMENT 26) ARING STAKE : 150 HZ	DATE/TIME: ANALYSI - BA	2-7-77 - 1549 2 ANDWIDTH: 1/10HZ 3 AZ STEERING	INTEGRATION TIME 320 F	SECS	ATTEN: _ DB WTG: HANNING
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CONTROL: 2-7 -1541 (DATE OF ANA	ALYS1S:			PEEL:FI	INDEXZOS
OMMI SPECTRUM (ELEMENT EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ I ELEMENT	%	DATE/TIME: Z ANALYSIS BA	NDWIDTH:	√ ¢ 2 1/1082 ₽186	INTECPATION	TIME 320 SECS FILTER	ATTEN: DB WTG: HANNING
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CONTROL: 2.7 - 1549 (15)
OMNI SPECTRUM (PLEMENT 3/
EXERCISE: BEARING STAKE CENTER FREQ: 150 1 ELEMENT

DATE OF ANALYSIS:

DATE/IIME: 2-7-72 -1540 Z
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING

REEL: F14

INDEXJOS

ATTEN: DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

INDEX 3050 ATTEN: - DB SECRET INTECRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 15 44 Z ANALYSIS BANDWIDTH: 1/10HZ DEC AZ STEERING DATE OF ANALYSIS: EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ SECRET

46 0703

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CONTROL: 2-7 -1544 (17) Omni spectrum(elfhent 3.5 EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ

DATE OF ABALTOIS:

DATE/TIME: 2.7-27 -1544 Z ANALYSIS BANDWIDTH: 1/108Z

REEL: 619

INDEX 30SE

ATTEN: DB INTEGRATION TIME 320 SECS PILTER

CONTROL: 2-7 - 1544 (16)
OMNI SPECTRUM (ELEMENT 57)
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
1 ELEMENT

DATE OF ANALYSIS:

DATE/TIME: 2.7.77 - 1649 Z
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING

REEL: F19

INDEX Joso

INTEGRATION TIME 320 SECS ATTEN: - DB FILTER WIG: HANNING

EXERCISE: BEARING STAKE CONTROL: 2-7 -1544 (14) OMNI SPECTRUM(ELEMENT CENTER FRED: I ELEMENT

DATE OF ANALYSIS:

ANALYSIS BANDWIDTH: 1/10HZ DATE/TIME: 2-272

REEL: F19

INDEX 30.50

ATTEN: DB INTEGRATION TIME 320 SECS PILTER

INDEX Jess	ATIEN: DB
REEL: F19	INTEGRATION TIME 320 SECS FILTER
DATE OF ANALYSIS:	DATE/TIME: 2-7-77 - 1549 2 ANALYSIS BANDWIDTH: 1/10H2 DEG AZ SIEERING
CONTROL: 2-7 - LSGG (20) OMNI SPECTRUM(ELEMENT 41)	EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ I ELEMENT

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	DATE/TIME: 2.7.77 - 1514 2 ANALYSIS BANDWIDTH::/IOHZ DEG AZ STEERING	INTEGRATION TIME 320 SECS ATTE FILTER WIG:	EN: DB
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DATE OF ANALYSIS:

CCNTROL: 2-7 -1544 (22) OMNI SPECTRUM (ELEMENT 45

INDEX Jose

REEL: F19

ATTEN: DB SECRET INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7-77 -/549 Z
ANALYSIS BANDWIDTH: 1/10HZ
-- DEG AZ STEERING EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

46 0703

N.M. 10 X 15 TO THE INCHASS CO. 115 ALS

CONTROL: 2-7 - 1544 (24)
OHNI SPECTRUM (ELEMENT 49)
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
1 ELEMENT

DATE OF ANALYSIS:

REEL: FIF

INDEX 3050

DATE/TIME: 2-7-77 -/549 Z
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING

INTEGRATION TIME 320 SECS FILTER

ATTEN: DB WTG: HANNING

EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ LELEMENT DATE/TIME: Z. ANA.: YSIS BAN LELEMENT DEG DEG DATE/TIME: Z. ANA.: YSIS BAN DEG DEG DEG DEG DEG DEG DEG DE			
SECRET	: 2-7-77 - 15 49 2 3ANDWIDTH: 1/10HZ 5G AZ STEERING	INTEGRATION TIME 320 SECS /	ATTEN: DB
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INDEX 305 ATTEN: - DB WTG: HANNING SECRET INTEGRATION TIME 320 SECS FILTER REEL: FIF 46 0703 DATE/TIME: 2-7-77 - 1547 2
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING DATE OF ANALYSIS: KAR THE STREET EXERCISE: BEARING STAKE OMNI SPECTRUM (ELEMENT CONTROL: 2-7 - 1544 (26 CENTER FREQ: 150 HZ 1 ELEMENT

EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ CONTROL: 2-7 -JSOF (27)

DATE OF ABALYSIS:

INTEGRATION TIME 320 SECS FILTER

INDEX JOSO

ATTEN: __ DB WIG: HANNING

EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ CONTROL: 2-7 -/544 (28) OMNI SPECTRUM(ELEMENT

DATE OF ANALYSIS:

ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING 7 6451-DATE/TIME: 2-7-77

REEL: F.g

INDEX Jose

ATTEN: DB WIG: HANNING INTEGRATION TIME 320 SECS PILTER

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11: 2.7 -154	``	DATE OF ANALYSIS:	REEL: F19	INDEX 3050
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CONTROL: 2-7 -1549 (32)
OMNI SPECTRUM(ELEMENT 1:
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ
1 ELEMENT

DATE OF ANALYSIS:

DATE/TIME: 2-7-27-15-92

ANALYSIS BANDWIDTH: 1/10HZ

DEG AZ STEERING

INDEX JOSE

ATTEN: DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

SECRET

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OMNI SPECTRUI EXERCISE:BEAL CENTER FREQ: I ELEMENT	M (ELEMENT 79) ARING STAKE 200 HZ	DATE/TIME: 2-2-77 - 154f 2 ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING	Z INTEGRATION TIME	320 SECS FILTER	ATTEN: DB WTG: HANNING
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ATTEN: DB WTG: HANNING INDEX 3050 INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7-77 -/54 Z ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING DATE OF ANALYSIS: EXERCISE: BEARING STAKE CONTROL: 2-7 -/544 (35) OMNI SPECTRUM(ELEMENT CENTER FREQ: 280 HZ 1 ELEMENT SECRET

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INDEX 3050 ATTEN: DB	
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DATE OF ANALYSIS:

CONTROL: 2-7 -1549 (37)
OMNI SPECTRUM(ELEMENT 23)

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INDEXZOSO

REEL: F19

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STEERING		
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1 ELEMENT	SECRET	

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INDEX	ATTEN WIG: H	
REEL: F/9	20 SECS FILTER	
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	INTEGRATION	
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	49 Z 1/10HZ RING	
ALYSIS:	: 2-7-77 - 15 99 BANDWIDTH: 1 EG AZ STEER	
DATE OF ANAL	DATE/TIME: 2. ANALYSIS BAN DEC	
-1549 (38)	TRUM (ELEMENT BEARING STAKE EQ: 240 HZ	
tol: 2	OMNI SPECTE EXERCISE:BE CENTER FREG 1 ELEMENT	SECRET
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DATE OF ANALYSIS:

CONTROL: 2-7 - (549 (39)

OMNI SPECTRUM(ELEMENT 26)

EXERCISE: BEARING STAKE

CENTER FREQ: 280 HZ

1 ELEMENT

INDEX Jose

REEL: F19

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CONTROL: 2.7 ~1549 (40)
OMNI SPECTRUM(ELEMENT 29)
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ
1 ELEMENT

DATE OF ANALYSIS:

DATE/TIME: 2-7-77 -/549 Z
ANALYSIS BANDWIDTH: 1/10HZ
DEC AZ STEERING

REEL: F19

INDEXTOSO

ATTEN: DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER

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K-M 19 X 19 TO THE INCH - 1 19 INCHES

CONTROL: 2.7 - 1544 (42.)
OMNI SPECTRUM (ELEMENT 33.) EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ

DATE OF ANALYSIS:

DATE/TIME: 2-7-72 - 1548 2
ANALYSIS BANDWIDTH: 1/10HZ
DEG AZ STEERING

INDEX 3050

ATTEN: DB WIG: HANNING

INTEGRATION TIME 320 SECS FILTER

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WTG: HANNING ATTEN: - DB INDEXJIS SECRET FILTER INTEGRATION TIME 320 SECS REEL: FIP 46 0703 DATE/TIME: 2.7-77 -1509 Z AMALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING DATE OF ANALYSIS: K.E. 19 x 19 THE ENGINE CONTROL CONTROL: 2-7 -1548 (44)
OMNI SPECTRUM(ELEMENT 37 EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ SECRET

INDEXFOSO ATTEN: - DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2-7-77 -/544 Z ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING DATE OF ANALYSIS: CONTROL: 2-7 -/549 (45)
OMNI SPECTRUM (ELEMENT 39 EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ

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CONTROL: 2-7 -1549 (46)
OMNI SPECTRUM(ELEMENT 4/
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ
I ELEMENT

DATE OF ANALYSIS:

DATE/TIME: 2-7-77 -/649 Z
ANALYSIS EANDWIDTH: 1/10HZ
DEG AZ STEERING

REEL: F19

INDEXZOS

ATTEN: - DB WTG: HANNING

INTEGRATION TIME 320 SECS FILTER

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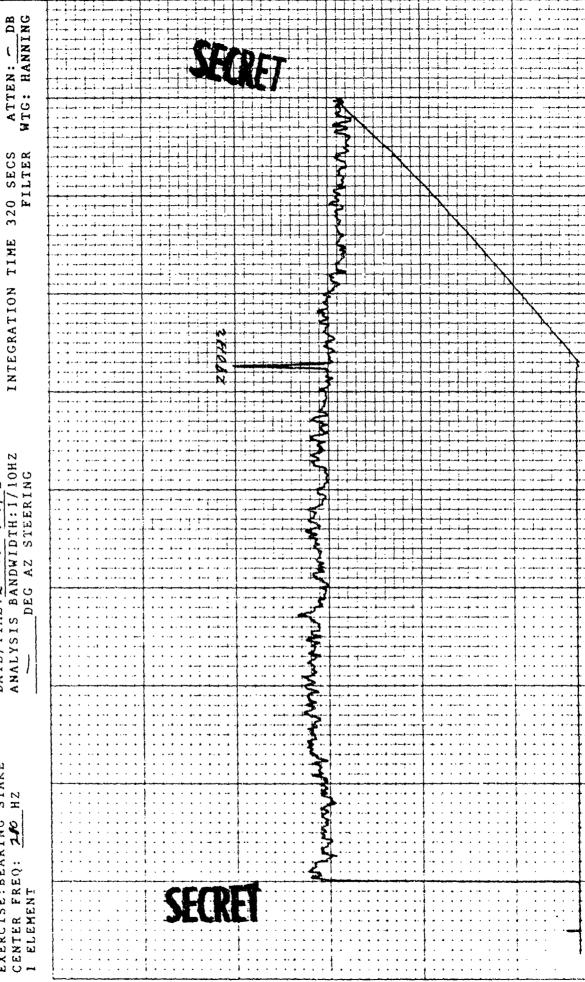
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DATE OF ANALYSIS 45)	E DATE/TIME: 2-7-77	ANALYSIS BANDWIDTH	DEG AZ
CONTROL: 2-7 - 1549 (46)	EXERCISE: BEARING STAKE	CENTER FREQ: 210 HZ	

SECISE: BEARING STAKE DAIL/ 11 ME: 2777 L THER FREQ: 240 HZ ANALYSIS BANDWIDTH: 1/10HZ INTEGRATION TIME 320 SECS LEMENT DEG AZ STEERING FILTER		COLY CLASS COLE COL		
ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING	SKCISE: BEARING STAKE	DAIE/IIME: A-1-11 -1017 L		
DEG AZ STEERING	STER FRED: 20 HZ	ANALYSIS BANDWIDTH: 1/10HZ	INTEGRATION TIME	320 SECS
		- DEG AZ STEERING		FILTER



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CONTROL: 2-7 - 1544 (44)
OMNI SPECTRUM(ELEMENT 47)
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ
1 ELEMENT

DATE OF ANALYSIS:

DATE/TIME: 2.7.77 -/549 Z ANALYSIS BANDWIDTH: 1/10HZ

DEG AZ STEERING

INTEGRATION TIME 320 SECS FILTER

ATTEN: DB WIG: HANNING

EL: F/9

INDEXZOSE

SECRET

DATE OF ANALYSIS:

CONTROL: 2-7 - 1549 (50) OHNI SPECTRUM(ELEMENT 49)

INDEX

REEL: F19

CENTER FRI	::BEARING SIAKE FREQ: 280 HZ *f	ANALYSIS BANDWIDTH:1/ DEG AZ STEERI	10HZ IN NG	INTEGRATION TIME	4E 320 SECS FILTER	ATTEN: _ DB WTG: HANNING
SECRET				2.80		
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FREQUENCY BAND 12 TO 1 182

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H I S T O F R A Z TAPE REFA. NUMBER J

ANALYSIS SAND SIDTH 1 HZ WATER DEPTH PMS

140 HZ				SECRET	290#Z 295#Z
150	MRA	200			300
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	FMS	ELEMENT A DATE EXERCISE	BEARING STALE	SAN-	 XXX-78-0132

ANALYSIS GIND VIDTH . 1 HZ
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SIGNAL LEVEL AND SAR

CALCULATIONS

DATA POINT 5

FREQUENCY 140 HZ NUMBER OF ELEMENTS 16

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION +10 -19.0

BEAMFORMER GAIN

MRA CORRECTION

+18 - '. SIG. LEVEL FOR SNR CALCULATION
+ .2 - . SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-32 STAND LEVEL INDICATED

MCTS-32 CAL. CORRECTION

<u>-60.3</u> +10 -50.3

BEAMFORMER GAIN

+18 -32.3 MOIST LEVEL FOR SER CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

-32.3 +31.3 -4.0 +27.3 + .2 + 27.5 SAR 1.0 HZ BAND -8.2 19.3 SUB 1 HZ BAND

PROCESSOR CORRECTION

BANDWIDTH CONVERSION

MRA CURRECTION

CONFIDENTIAL

CUNTIDENTIAL

SIGNAL LEVEL AND SNR CALCULATIONS

DATA POINT 5

FREDUENCY 290 HZ NUMBER OF ELEMENTS 16

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

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BANDWIPTH CONVERSION

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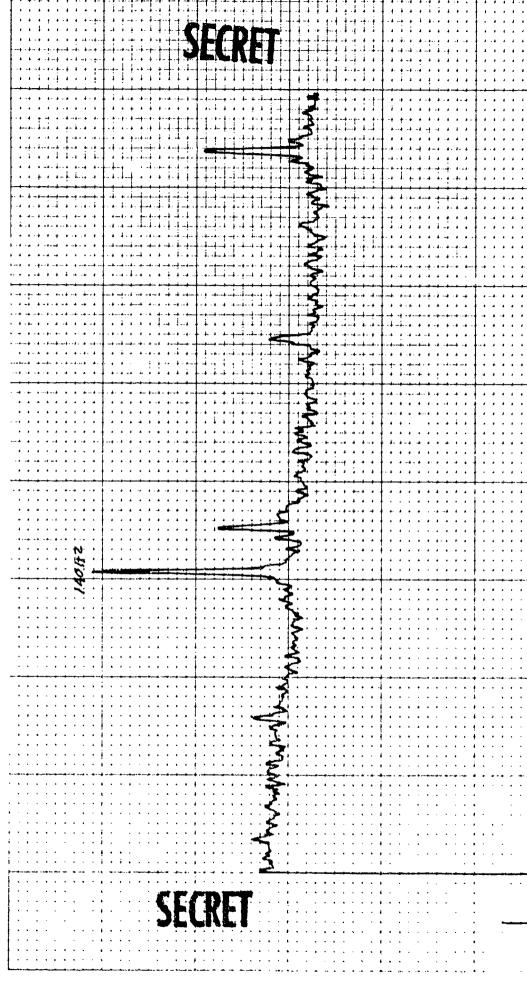
ATTEN: -/Ø DB WTG: HANNING INDE X 3050 INTEGRATION TIME 320 SECS FILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2-7-77 COMTROL: 1544 - 14 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER FRED: 150 HZ SECRET INDE X 3050

REEL: F/P

DATE OF ANALYSIS:

ATTEN: -/8 DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ CONTROL: 1544 - 16 (DPS)
BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ CENTER PREQ: 150 SECRET

INDE X3050	ATTEN: -/* DB WIG: HANNING	
REEL: F/9	INTEGRATION TIME 320 SECS FILTER	
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CONTROL: /549 - 16 (DPS) BEAMPORMED SPECTRUM(ELEMENTS	EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ 16 ELEMENTS	· · · · · · · · · · · · · · · · · · ·



ATTEN: 18 DB WTG: HANNING INDE X 3050 INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/IIME: 2-7-77 - 1504 Z
ANALYSIS BANDWIDTH: 1/10HZ
++0 DEG. AZ STEERING DATE OF ANALYSIS BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ SECRET INDE X 3052

ATTEN: -/ DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 (DATE/TIME: 2-7-77 - 1500 Z
ANALYSIS BANDWIDTH: 1/10HZ
+ 4/ DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1541 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ
16 ELEMENTS SECRET

INDE X3050

REEL: F19

DATE OF ANALYSIS:

ATTEN: -/8 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 1549 Z ANALYSIS BANDWIDTH: 1/10HZ CONTROL: 1549 - 76 (DP5)
BEAMPORNED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ SECRE ATTEN: 7 DB WTG: HANNING

INTEGRATION TIME 320 SECS PILTER

INDE X 2050

REEL: F19

DATE OF ANALYSIS:

DATE/TIME: 2-7-77 - 1549 Z ANALYSIS BANDWIDTH: 1/10HZ † 44 DEG. AZ STEERING CONTROL: 1541 - 16 (DP5)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
16 ELEMENTS SECRET

CONTROL: /	244 - 16 (215)	N.	LYSIS:	(REEL	EL: 619	INDE X 30.50
EXERCISE: BEAR CENTER PREQ: 1	ING STAKE	DATE/TIME: Z-ANALYSIS BAN	7-7-77 - 1544 Z SANDWIDTH: 1/10HZ AZ STEERING		INTEGRATION	TIME 3	20 SECS FILTER	ATTEN: 71 DB WTG: HANNING
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ATTEN: -/ DB WTG: HANNING INDE X Jose INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+52 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1549 - 16 (bps)

BEAMFORMED SPECTRUM(ELEMENTS

EXERCISE: BEARING STAKE

CENTER FREQ: 150 HZ

16 ELEMENTS

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INDE X 3050

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ATTEN: -/8 DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING 2 6451-DATE/TIME: 2-7-77 156 CONTROL: 1544 - 16 (5P5)
BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ SECRET

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ATTEN: 78 DB WTG: HANNING INDE X 2050 INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+58 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL://549-16 (DP5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER FREQ: 150 SECRET

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ATTEN: -/8 DB WTG: HANNING INDE X 3050 INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2.7-77 - 1549 Z ANALYSIS BANDWIDTH: 1/10HZ + 60 DEG. AZ STZERING OF ANALYSIS: DATE CONTROL: 1544 - 16 (NS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

ATTEN: -/8 DB WTG: HANNING INTEGRATION TIME 320 SECS PILTER DATE/TIME: 2.7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+62 DEG. AZ STEERING DATE OF ANALYSIS CONTROL: 1544 - 16 (DP 5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ SECRET

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ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 1544 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

REEL: F19

ATTEN:-/8 DB INDE X 7050 WTG: HANNING INTEGRATION TIME 320 SECS FILTER

ATTEN: -1 DB WTG: HANNING INDE X 2050 INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2-7-77 -1544 Z ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 1544 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ SECRET

INDE X 3050 WTG: HANNING SECRET INTEGRATION TIME 320 SECS FILTER DAIE/TIME: 2-7-77 - 1549 Z ANALYSIS BANDWIDTH: 1/10HZ +(8 DEG. AZ STEERING OF ANALYSIS: DATE/TIME: 2-7-77 DATE CONTROL: 1544 - 1c (DPS)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ SECRET

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ATTEN: -/ DB DB WTG: HANNING INDE X 305. INTEGRATION TIME 320 SECS DATE/TIME: 2.7.77 -1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+70 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1549 - 14 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 150 HZ SECRET

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BEAMFORMED \(SPECTRUM \) (\(ELEMENTS \) \\
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DATE/TIME: 2-7-77 -1649 Z
ANALYSIS BANDWIDTH: 1/10HZ
+ 78 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1544 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

INTEGRATION TIME 320 SECS

INDE X3050

ATTEN: -(8 DB WTG: HANNING

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ATTEN: -/ DB WTG: HANNING INDE X 3050 INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2.2-77 -/549 Z ANALYSIS BANDWIDTH: 1/10HZ +80 DEG. AZ STEERING ANALYSIS: DATE OF CONTROL: 1549 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ SECRET

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BEAMPORMED SPEC EXERCISE: BEARIN CENTER FREQ: 150	TRUM(ELEMENTS G STAKE HZ	DATE OF ANA 1-/6 DATE/TIME: Z ANALYSIS BA 486 DZG.	NALZSIS: 3.7.77 (59) BANDWIDTH: 1 AZ STEERI	7 10HZ	INTEGRATI	ON TIME	REEL: F/P 320 SECS FILTER	I ATT WTG:	TTEN:-/8 D: HANNING
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	DATE/TIME: 2-7-77 - 1549 Z ANALYSIS BANDWIDTH: 1/10HZ +88 DEG. AZ STEERING	INTEGRATION TIME 320 SECS FILTER	ATTEN: -/ & DB WTG: HANNING
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ATTEN: 78 DB WTG: HANNING INDE X 205 INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2-7-77 - 1546 2
ANALYSIS BANDWIDTH: 1/10HZ
+90 DEG. AZ STEERING DATE OF ANALYSIS. CONTROL: 1544 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
// ELEMENTS

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CONTROL: 1549 BEAMFORMED EXERCISE: BECENTER FREQ	
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CONTROL: 1549 - 14 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ

ANALYSIS BANDWIDTH: 1/10HZ + 32 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77

REEL: F19

INDE X 3065

ATTEN: -/Ø DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER

K-M 10 X 10 TO THE INCH-1 / 10 INCHES

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INDE X 705° ATTEN: 76 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: $\frac{1549}{1540} - \frac{16}{16} \frac{(DPS)}{16}$ BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ
// ELEMENTS

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KOE 10 X 10 THE INCH+) X 19 INCHES

INDE X 3050

ATTEN: -/& DB WTG: HANNING

CONTROL: 1549 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ
16 ELEMENTS

DATE/TIME: 2-7-77 - 15 4 2
ANALYSIS BANDWIDTH: 1/10HZ
+ 38 DEG. AZ STEERING ANALYSIS: OF DATE

INDE X 3050

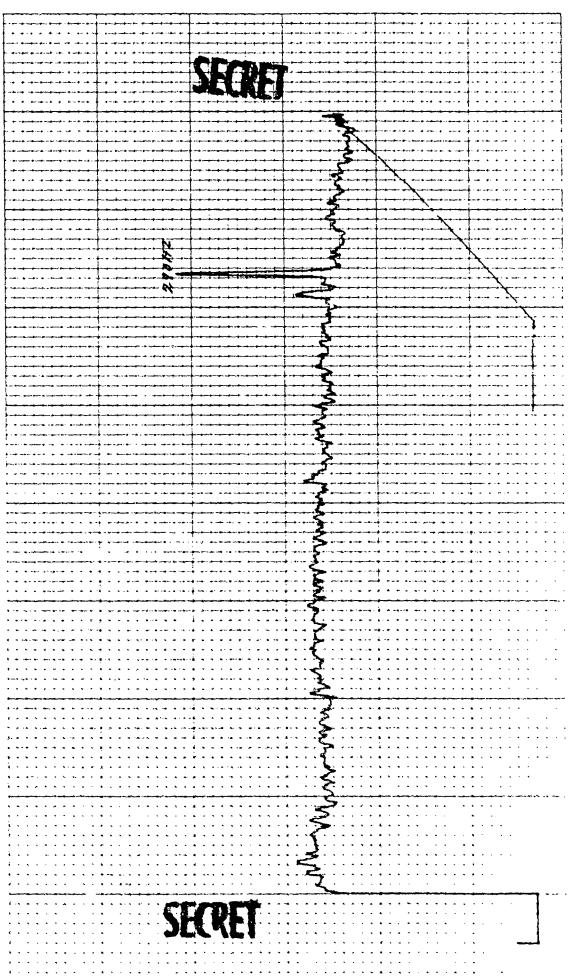
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ATTEN: -/8 DB WTG: HANNING INDE X3050 INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7-77 - 1544 Z ANALYSIS BANDWIDTH: 1/10HZ +39 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1549 - 16 (DPS)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ

46 0703

INDE X 3060 ATTEN: / DB DTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2.7-77 - 15vg Z ANALYSIS BANDWIDTH: 1/10HZ + 40 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2.7.77 CONTROL: 1549 - 51 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
// ELEMENTS

INDE X 3050	ATTEN: -/8 DB WTG: HANNING	
REEL: F19	INTEGRATION TIME 320 SECS FILTER	
DATE OF ANALYSIS:	DATE/ ANALY + 4/	
CONTROL: 1549 - 16 (DPS)	EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ	



INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ
+ 42 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 1549 - 16 (DPS)
BEAMFORMED SPECTRUM ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ

REEL: F19

INDE X 3050

ATTEN: -/8 DB WTG: HANNING

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INDE X3050 ATTEN: -/8 DB WTG: HANNING	
REEL: F19 INTEGRATION TIME 320 SECS FILTER	
DATE OF ANALYSIS:	
CONTROL: 1549 - 14 (DP5) BEAMFORMED SPECTRUM(ELEMENTS EKERCISE: BEARING STAKE CENTER FREQ: 280 HZ 14 ELEMENTS	

CONTROL. 1599 - 16 (Des) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ // ELEMENTS	DATE OF ANALYSIS:	INTEGRATION TIME 320 SECS FILTER	INDE X 2050 ATTEN: -/ 6 DB WIG: HANNING
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CONTROL: 1546 - 76 (DPS)
BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ

ANALYSIS BANDWIDTH: 1/10HZ Z 1881 -DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77 + 48

REEL: FIP

ATTEN: -/ 8 DB

INDE X 305E

WIG: HANNING INTEGRATION TIME 320 SECS FILTER

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INDE X 305 ATTEN: -/ Ø DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 46 0703 DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+ 52 DEG. AZ STEERING DATE OF ANALYSIS: KE REWARL & PERMICO WITHOUT CONTROL: [544 - 76 (276)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 220 HZ

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ATTEN: -/ P DB WTG: HANNING INDE X 3050 INTEGRATION TIME 320 SECS FILTER REEL: FI ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: CONTROL: 15/49 - 16 (DP5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE CENTER PREQ: 350 HZ SECRE

DATE/TIME: 2.7-77 - 1549 2 ANALYSIS BANDWIDTH: 1/10HZ i DEG. AZ STEERING DATE OF ANALYSIS: TIME: 2-7-77 DATE/ CONTROL: 1549 - 16 (DPS)
BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ

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REEL: F19

INDE X 3050

ATTEN:-/ DB

WTG: HANNING INTECRATION TIME 320 SECS PILTER

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REEL: F19 1 ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1544 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ ELEMENTS

ATTEN: -/ DB INTECRATION TIME 320 SECS FILTER

INDE X 3050

INDE X 7050	PILTEP WIG: HANNING	
PEEL: 15/9	INTECPATION TIME 320 SECS FILTER	
	DATE/TIME: 2.7-77 - 1544 2 ANALYSIC BANDWIDTH: 1/10HZ + 64 DEC. AZ STEEPING	
CONTROL: 1649 - 10 (DPS) BEANPOPMED SPECTRUM(FLEMENTS	EXERCISE: BEARING STAFE CENTER PRED: 280 HZ // ELEMENTS	

INDE X 3050 INTEGRATION TIME 320 SECS FILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ + 66 DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 1549 - 16 (DPF)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 200 HZ

ATTEN: 1 DB WTC: HANNING SECRFI

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CONTROL: 1549 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
ENERCISE: BEARING STAKE
CENTER FREQ: 286 HZ
16 ELEMENTS

DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+68 DEG. AZ STEERING DATE OF ANALYSIS:

INDE X 3050

INTEGRATION TIME 320 SECS

ATTEN: -/8 DB WTG: HANNING

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ANALYSIS BANDWIDTH: 1/10H2
+76 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1549 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ
16 ELEMENTS

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ANALYSIS BANDWIDTH: 1/10HZ
+32 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1549 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEAXING STAKE
CENTER FREQ: 280 HZ

							
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CONTROL: 1549 - 16 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ

ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2-7-77

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SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 5

FREQUENCY /40 HZ

NUMBER OF ELEMENTS JA

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

- 31.3

10 -21.

+24

+ 2.7 SIG. LEVEL FOR SNR CALCULATION

t .2

+2.9 SIG. LEVEL FOR SIGNAL GAIN

NOTSE LEVEL

MCPS-59 GIGNAL LEVEL INDICATED

MCDS-32 CAL. CORRECTION

BE MEORMER GAIN

-60.6

+10 -50.

424 -36.8 MOIST LEVEL FOR SEE CHECKLATICS

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CURRECTION

BANDWIDTH CONVERSION

+2.7

79.5

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SNR 1/10 HZ

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SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 5

FRE-)UENCY 290 HZ NUMBER OF ELEMENTS 32

SIGNAL LOYEL

MCPS-32 SIGNAL LEVEL INDICATED

"CPS-32 CAL. CORRECTION

-31.2 +10

BEIMFORMER GAIN

MRA CORRECTION

+24 - 7.2 SIG. LEVEL FOR SNR CALCULATION

+ .8 -6.4 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCDS+32 GIANT LEVEL INDICATED

MORS-32 CAL. CORRECTION

+10 -55.9

BE MECRATE GAIN

-31.9 MOIST LEVEL FOR SMM CALCULATION

SIGNAL-NOTED-RUTTO

SIGNAL LEVEL FOR SAR

SIGNAL LIVEL FOR SYR

PROCESSOR CONNECTION

MRG CORRECTION

BWANISTH CONTRIBION

21.5 SNR 1/1. HZ BAND

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DATA POINT 5

SIGNAL GAIN

	140 HZ	290HZ	295HZ
MEAN OMNI SIGNAL LEVEL	-30.0	-33./	
MRA SIGNAL LEVEL	+ 2.9	- 6.4	***************************************
ARRAY SIGNAL GAIN	+32.9	+26.7	***************************************
20 LOG	30 ./	30.1	
# of elements			
DIFFERENCE	+ 2.8	- 3.4	
			-

ARRAY GAIN

MRA SNR	25.7	25.5	
MEAN OMNI SNR	9-3	10.5	***************************************
ARRAY GAIN	16.4	15.0	***
THEORETICAL AZMUTH GAIN (at MRA)	12.2	14.6	
DIFFERENCE	+ 4.2	+ .4	

CONFIDENTIAL

INDE X 7650 ATTEN: -24 DB G: HANNING	SECRET
REEL: F19 IME 320 SEC3 FILTER WT	
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OF ANALYSIS * # 24-34 TIME: 2-7-77 SIS BANDWID DEG. AZ ST	
DATE (1-24 DATE/) ANALY + 34	
/549 - J = (DPS) IED SPECTRUM(ELEMENTS) :BEARING STAKE REQ: /50 HZ	
CONTROL: /540 BEAMPORMED EXERCISE: BE CENTER FREQ	SECRET

INDE X 3050

REEL: F/9

DATE OF ANALYSIS:

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INTEGRATION TIME 320 SECS FILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ DATE/TIME: 2-7-77 - 1549 Z DATE OF ANALYSIS: CONTROL: 1549 - 32 (DP5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS

INDE X 3050 ATTEN: -24 DB WTG: HANNING

DATE OF CONTROL: 1544 - 32 (245)
BEAHFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ

ANALYSIS BANDWIDTH: 1/10HZ DATE/TIME: 2-7-77

INDE X 3050

ATTEN:-24 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

DATE OF ANALYSIS: 1-26 \$ 29-34

CONTROL: 1649 - 57 (105)
BEAMPORHED SPECTRUM(ELEMENTS

INDE X 3060

REEL: F19

ATTEN: 24 DB WTG: HANNING INTEGRATION TIME 320 SECS PILTER ANALYSIS BANDWIDTH: 1/10HZ DATE/TIME: 3-7-77 -1549 2 EXERCISE: BEARING STAKE JA ELEMENTS SECRE

INDE X 3050 ATTEN: -34 DB WIG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE OF ANALYSIS: DATE/TIME: 2-7-77 16 **+** CONTROL: 1549 - 72 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS SECRET

/ /

CONTROL: 1549 - 32 (DP5)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

DATE OF ANALYSIS:

ANALYSIS BANDWIDTH:1/10HZ
++C DEG. AZ STEERING

REEL: F19

INDE X 3050

INTEGRATION TIME 320 SECS FILTER

ATTEN: -24 DB WTG: HANNING

INDE X 3050

REEL: FIP

ATTEN: -24 DB WTG: HANNING INTEGRATION TIME 320 SECS PILTER ANALYSIS BANDWIDTH: 1/10HZ 4451-DATE OF ANALYSIS: DATE/TIME:27-77 CONTROL: 1544 - 32 (DP5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
32 ELEMENTS SECRET

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CONTROL: 1549 - 32 (DP5) D BEAMFORMED SPECTRUM(ELEMENTS EXERCISC: BEARING STAKE CENTER FREQ: 160 112 32 ELEMENTS		560				

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INDE X 3050 ATTEN: - 24 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 ANALYSIS BANDWIDTE: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 1544 - 32 (bps)
BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ SECRET

CONTROL: 15 Y9 - 32 (DPS)
BEAMFORMED SPECTRUM (ELEMENTS EXERCISE: BEARING STAKE GENTER FREQ: 150 HZ

DATE/TIME: 2.7-77 - 1549 Z ANALYSIS BANDWIDTH: 1/10HZ +56 DEG. AZ STEERING Z 6h51-DATE OF ANALYSIS I-26 4 28-34

PEEL: F/9

INDE X 3050

ATTEN: -2/ DB WTG: HANNING

INTEGRATION TIME 320 SECS FILTER

SECRET

CENTER REDO; 290 HZ ANALYST RELAY 2 ANALYST REPRINC 3.2. ELEMENTS AT STERRING	E : BEARING STAKE FREQ: 280 HZ	SIS BANDWID DEG. AZ ST	_/549 Z TH:1/10H EERING	INTEGRATIO	TIME 320 FI	SECS A	TTEN:-24
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CONTROL: 1549 - 32 (DPS) BEAMPORMED SPECTRUM(ELEME) EXERCISE: BEARING STAKE CENTER PREQ: 200 HZ	DATE 1-3 DATE DATE ANAL + 31	6 d 24 - 34 /TIME: 2-7-7 /SIS BANDW	IS:	INTEGRATION	REEL: F/9 N TIME 320 SECS FILTER	INDE X 3050 ATTEN:-24 DB WIG: HANNING
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INDE X <i>7052</i> ATTEN: -24 DB WTG: HANNING	
REEL: <u>F/9</u> INTEGRATION TIME 320 SECS PILTER	
DATE OF ANALYSIS: -3c \(\precess{gr} = 34 \) DATE/TIME: 2-7-77 ANALYSIS BANDWIDTH: 1/10HZ +38 DEG. AZ STEERING	
CONTROL: /549 - 32 (DBS) BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ 32 ELEMENTS	SECRET

INDE X3050

ATTEN: -2 DB WTG: HANNING

INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+ 42 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1549 - 72 (DP5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 380 HZ
72 ELEMENTS

ATTEN: -> V DB WTG: HANNING

INDE X 2050

INTEGRATION TIME 320 SECS PILTER ANALYSIS BANDWIDTH: 1/10HZ ANALYSIS: DATE/TIME: 2-7-77 DATE OF 1-30 & CONTROL: 1549 - 32 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ
32 ELEMENTS

INDE X 3050

ATTEN: -2# DB WTG: HANNING

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INDE X 3050 ATTEN: - 24DB WTG: HANNING INTEGRATION TIME 320 SECS PILTER REEL: F19 DAIE/TIME: 2-7-77 - 1549 Z ANALYSIS BANDWIDTH: 1/10HZ +46 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1544 - 33 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ

INDE X 305 INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+ 46 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1544 - 72 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ
32 ELEMENTS

ATTEN: -> YDB WTG: HANNING

INDE X3050 INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
449 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 1544 - 5/ (005)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 270 HZ
32 ELEMENTS

ATTEN: 2 P DB WTG: HANNING

ATTEN: -24 DB WTG: HANNING INDE X 3052 INTEGRATION TIME 320 SECS PILTER REEL: F19 46 0703 SIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE/TIME: 2-7-77 W.W. 10 X 10 TO THE HOME X 10 HOUSE ANALYSIS +50 DEG CONTROL: 1544 - 32 (DPS)
BEAMFORMED SPECTRUM(BLEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ
32 ELEMENTS SECRET

INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ +52 DEG. AZ STEERING 64.51-DATE OF ANALYSIS: DATE/TIME: 2-7-77 CONTROL: 1544 - 72 (DPS)
BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ

ATTEN: -24 DB INDE X 305 0 WTG: HANNING REEL: F19

ATTEN: -3V DB WTG: HANNING INDE X 3050 INTEGRATION TIME 340 SECS FILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ +64 DEG. AZ STEERING DATE OF ANALYSIS: 25.29 CONTROL: 1549 - 32 (DPS)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: B' ARING STAKE
CENTER FRE 2: 280 HZ
32 ELEMENTS

INDE X3050	ATTEN: 724 DB WTG: HANNING
REEL: F19	INTEGRATION TIME 320 SECS PILTER
DATE OF ANALYSIS:	DATE/TIME: 2.7-77 - 1544 Z ANALYSIS BANDWIDTH: 1/10HZ +56 DEG. AZ STEERING
0 2	EXERCISE: BEARING STAKE CENTER FREQ: 28C HZ 32 ELEMENTS

EXERCISE: BEARING STAKE CENTER FREQ: 28CHZ	DATE/TIME: 2.7-77 - 1546 Z ANALYSIS BANDWIDTH: 1/10HZ	INTEGRATION TIME 320 SECS ATTEN: 24 DB
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INDE X3650	ATTEN:-24 DB	WIG: HANNING		
REEL: F/9	INTEGRATION TIME 320 SECS	FILTER		
1	INTEG			
DATE OF ANALYSIS:	DATE/TIME: 2-7-77 - 15.49 2	ANALYSIS BANDWIDTH: 1/10HZ	+58 DEG. AZ STZERING	
CONTROL: 1549 - 32 (DPS) BEAMFORMED SPECTRUM(ELEMENTS	EXERCISE: BEARING STAKE	CENTER PREQ: 280 HZ	32 ELEMENTS	Miller of the control

CONTROL: 1549 - 32 BEAMPORMED SPECT EXERCISE: BEARING CENTER FREQ: 210	72 (DP) TRUM(ELEMENTS IG STAKE	DATE OF ANALYSIS: 1-26 & 29-34 DATE/TIME: 2-7-77 - 154 ANALYSIS BANDWIDTH: 1 +60 DEG. AZ STEERI	7 10HZ	REEL:	ELS AT	INDE X3050 TEN:-27 DB HANNING
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SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 5

FREQUENCY 140 HZ NUMBER OF ELEMENTS 5/

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

+10 -26.2

BEAMFORMER GAIN

+30 + 3.8 SIG. LEVEL FOR SNR CALCULATION

MRA CORRECTION

+ .2 + 4.0 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-32 GIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION ±10 -54.2

BEAMFORMER GAIN

+30

-24.2 NOIST LEVEL FOR SHR CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SAR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CURRECTION

BANDWIDTH CONVERSION

+ 3.8

-24.2 28.0

+ .2 24.2 SAR 16. H2 BAND

-8.2 16.0 SMR 1 HZ BAND

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SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 5

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SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

-3.8 SIG. LEVEL FOR SNR CALCULATION +3.0 SIG. LEVEL FOR SNR CALCULAY
+ .8 -3.0 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-52 GIGNAL LEVEL INDICATED

MCDS-32 CAL. CORRECTION

+10 -59.2

BEAMFORMER GAIN

+30 -29.2 NOIST LEVEL FOR SMR CALCULATION

SIGNAL-NOTSE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

-4.0 21.9 +.8 22.2 SNR 1 HZ BAND -8.2 16.0 SNR 1 HZ BAND

PROCESSOR CORRECTION

BANDWIDTH CONVERSION

MRA CORRECTION

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DATA POINT 5

SIGNAL GAIN

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 MRA
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 THEORETICAL AZMUTH GAIN (at MRA)
 14.2
 16.3

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CONFIDENTIAL

432 DEG. AZ STEERING Z 442/-CONTROL: 1541 - 51 (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING TAKE CENTER PREQ: 150 12

INTEGRATION TIME 320 SECS ATTEN:-30 DB FILTER WTG: HANNING

INDE X3650

REEL: FIL

46 0703

K.M. 10 X 10 TO THE INCH. X 10 L'CHES

INDE XXX	ATTEN:-30 DB WTG: HANNING
REEL: AL	INTEGRATION TIME 320 SECS FILTER
DATE OF ANALYSIS:	DATE/TIME: 2-7-77 - 1549 2 ANALYSIS BANDWIDTH: 1/10HZ +36 DEG. AZ STEERING
ONTROL: 1549 - 5. EAMPORMED SPEC	EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ 51 ELEMENTS

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REING STAKE DATE INTERCATON THE 320 SECS ATTENTY HAVE DEC. AZ STERRING HOW DEC. AZ STE	CONTROL: 1549 - 5/ (D. BEAMFORMED SPECTRUM	0 1 V	OF ANALYSIS:		REEL:	INDE X3.
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ATTEN:30 DB WTG: HANNING INDE X Joso INTEGRATION TIME 320 SECS FILTER REEL: F19 ANAIYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING 2 6451-DATE OF ANALYSIS: DATE/TIME: 2.7.77 CONTROL: 1549 - 5/ (bbs.)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
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ATTEN: 30 DB WIG: HANNING INDE X 361 INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 1549 2 ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING F ANALYSIS: DATE/TIME: 2-7-77 DATE CONTROL: |544 - 51 (D05)

BEAMFORMED SPECTRUM(ELEMENTS

EXERCISE: BEARING STAKE

CENTER FREQ: 150 HZ

51 ELEMENTS

INTEGRATION TIME 320 SECS PILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING ANALYSIS: DATE/TIME: 2.7-77 40 DATE + 45 CONTROL: 1549-5/ (DPS)
REAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

SECRET

INDE X 3250

ATTEN:-30 DB

WTG: HANNING

INDE X 3050 ATTEN: -30 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: F19 DATE/TIME: 2.7-77 - 1549 2 ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS CONTROL: 1549 - 5/ (DPS)
BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 150 H2

DEG. AZ STRERING 24+

DATE/TIME: 2-7-77 - 1549 2
ANALYSIS BANDWIDTH: 1/10HZ
+48 DEG. AZ STEERING CONTROL: 1549 - 5/ (DPS)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ 5/ ELEMENTS

OF ANALYSIS:

INTEGRATION TIME 320 SECS FILTER

REEL: F19

INDE X 3050

ATTEN: -30 DB WTG: HANNING

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ATTEN: -3 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
+50 DEG. AZ STEERING -1549 DATE/TIME: 2-7.77 CONTROL: 1549 - 5/ (DPS)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 150 HZ
5/ ELEMENTS

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INDE X 3050

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ATTEN: -30 DB WTG: HANNING INDE X 3450 INTEGRATION TIME 320 SECS PILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ ANALYSIS: DATE/TIME: 2-7-77 DATE OF ANALY 1-26 \$ 29-53 CONTROL: 1549 - 5/ (DPS)
BEAMFORHED SPECTRUM(ELEHENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

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BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 150 HZ
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INDE X5050 ATTEN: -30 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: FI 1 ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2.7.77 CONTROL: 1849 - 5/ (DPS)
BEAMPORHED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ
5/ ELEMENTS

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ATTEN:-30 DB WTG: HANNING INDE X 2050 INTEGRATION TIME 320 SECS FILTER REEL: E19 ANALYSIS BANDWIDTH: 1/10HZ DATE/TIME: 2-7-77 - 1549 2 DATE OF ANALYSIS: CONTROL: 1549 - 5/ (DPS)
BEAMFORMEU SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ

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CONTROL: 1546 BEAMPORMED EXERCISE: BECENTER FREG	

ATTEN: -30 DB WTG: HANNING INDE X30S INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2-7-77 - 649 Z
ANALYSIS BANDWIDTH: 1/10HZ
+43 DEG. AZ STEFFING DATE OF ANALYSIS: CONTROL: \(\frac{\frac{\partial \rho_F}}{\partial \rho_F} \)

BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: \(\frac{\partial \rho_F}{\partial \rho_F} \)

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KON 10 X 10 TO THE INCH + 7 X 10 INCHES

ANALYSIS BANDWIDTH: 1/10HZ CONTROL: 1349 - 51 (DP5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ
51 ELEMENTS

DATE/TIME: 2-7-72

INDE X 3050

ATTEN:-30 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER

× 20-1 CONTROL:/Seq - 5/ (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ
5/ ELEMENTS

ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS:

REEL: F19

INDE X 305

INTEGRATION TIME 320 SECS PLIER

ATTEN: -30 DB WTG: HANNING

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|- 1 CONTROL: 1549 - 5/ (DPS)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER FREQ: 280 HZ
5/ ELEMENTS

INTEGRATION TIME 320 SECS FILTER

INDE X3050

ATTEN:-30 DB WTG: HANNING

ATTEN:-30DB INDE X3250 WTG: HANNING INTEGRATION TIME 320 SECS PILTER ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING 7 1257 DATE OF ANALYSIS: CONTROL: 1549 - 51 (DP) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ SECRET

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INDE X Joso ATTEN: 30 DB WTG: HANNING INTEGRATION TIME 320 SECS PILTER REEL: F19 ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2.7-77 CONTROL: 1549 - 5/ (DP5)
BEAMFORMED SPECTRUM(BLEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 270 HZ

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INDE XJOSO

ATTEN:-30 DB WTG: HANNING INTEGRATION TIME 320 SECS PILTER REEL: 51 ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING -1541 1-264 29-53 DATE/TIME: 2-7-77 DATE OF CONTROL: 1549 -51 (DP5)
BEAMPORMED SPECTRUM (ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ
51 ELEMENTS

ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: DATE/TIME: 2.7-77 CONTROL: 1549 - 5/ (DP5)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 280 HZ
5/ ELEMENTS

INTEGRATION TIME 320 SECS PILTER

REEL: F19

INDE X2050

ATTEN:-30 DB WTG: HANNING

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INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7.77 - 1549 Z
ANALYSIS BANDWIDTH: 1/10HZ
756 DEG. AZ STRERING

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CONTROL: [549 - 5/ (DP5)
BEAMFORMED SPECTRUM(ELEMENTS
EXERCISE: BEARING STAKE
CENTER PREQ: 200 HZ

DATE OF ANALYSIS:

REEL: F19

ATTEN: -30 DB WTG: HANNING

INDE X 3050

INDE XJOSO ATTEN:-30 DB WTG: HANNING INTEGRATION TIME 320 SECS FILTER OF ANALYSIS: DATE/TIME: 2-7-52 DATE CONTROL: 1549 - 5/ (DPS)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER PREQ: 280 HZ SECRET

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BANDWIDTH CONVERSION TO 1 HZ BAND

CONVERSION TO dBrepPa/1HZ

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dB/pB SYSTEM SENSITIVITY BANDWIDTH CONVERSION TO 1 HZ BAND

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INDEX 3320 ATTEN: - DB WTG: HANNING REEL: F23 INTEGRATION TIME 320 SECS FILTER DATE/11ME: 2-7-72 - 2013 2 ARALYSIS BARDWIDTH: 1/10H2 DEG AZ STEERING DATE OF ANALYSIS: EXERCISE: BEARING STAFE CENTER FREG: 150 CONTROL: 2-7

SECRET

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KEFT: F33 INTEGRATION TIME 320 SECS FILTER DATE/TIME: 2.7-77 - 2033 Z ANALYSIS BANDWIDTH: 1/10HZ DEG AZ STEERING DAIL OF ABALYSIS: EXERCISE: BEARING STAKE CONTROL: 2-7 - 2/32 (30)
OMNI SPECTRUM (ELEMENT CENTER FREQ: (50-

INDEX 2320

ATTEN: _ DB WTG: HANNING

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OMNI SPECTRUM (ELEMENT 26)

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140 HZ. HISTOFRAZ TAPE REEL NUMBER <u>F23</u> CONTROL NUMBER 20132-41- DPC ELEI DATI EXEI NUMBER OF ELEMENTS
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	140 n2 150 150	200	SECRET 240 HZ 245 HZ 250 300
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ELEMENT DATE 2 EXERCIS

CONFIDENTIAL SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 6

FREQUENCY 140 HZ NUMBER OF ELEMENTS 16

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

+18 - .7 sig. Level for snr calculation + .2 - 5 sig. Level for signal gain

NOISE LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

+10 -26.7

BEAMFORMER GAIN

+18 -28.7 NOISE LEVEL FOR SAR CALCULATION

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SIGNAL LEVEL FOR SNR

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PROCESSOR CORRECTION

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BANDWIDTH CONVERST AN

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SIGNAL LEVEL AND SNR

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SIGNAL-NOISE-RATIO

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PROCESSOR CORRECTION

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-4.0 33.7 + .6 34.3 SNR 1/10 HZ BAND

BANDWIDTH CONVERSION

26.1 SNR 1 HZ BAND

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ARRAY GAIN

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MEAN OMNI SNR	15.4	19.9	
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DATE/TIME: 2-7-77 - 2023 2
ANALYSIS BANDWIDTH: 1/10HZ
+24 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2033 - 16 (DPC)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 180 HZ

INTEGRATION TIME 320 SECS ATTEN: -/ ® DB FILTER WTG: HANNING

CONFIDENTIAL

CALCULATIONS

DATA POINT 6

FREQUENCY 140 HZ NUMBER OF ELEMENTS 32

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

+ 4.2 SIG. LEVEL FOR SNR CALCULATION

+ 4.2 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

-60.3 -50.3 +24 -26.3 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CORRECTION

BANDWIDTH CONVERSION

-26.3 30.7 -4.0 26.7 + .2 26.9 SNR 1/10 HZ BAND -8.2 18.7 SNR 1 HZ BAND

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SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 6

FREQUENCY 290 HZ NUMBER OF ELEMENTS 32

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION +10 +

NOISE LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

-65.5 +10 -55.5 +24 -31.5 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-RATIO

SIGNAL LEVEL FOR SNR

SIGNAL LEVEL FOR SNR

PROCESSOR CORRECTION

MRA CORRECTION

BANDWIDTH CONVERSION

-31.5 37.7 -4.0 33.7 + .8 33.9 SNR 1/10 HZ HAND -8.2 25.7 SNR 1 HZ HAND

CONFIDENTIAL

CONFIDENTIAL POINT G

SIGNAL GAIN

	140 HZ	290HZ	295HZ
MEAN OMNI SIGNAL LEVEL	- 24.7	-23.0	
MRA SIGNAL LEVEL	+ 4.4	+ 5.6	
ARRAY SIGNAL GAIN	29.1	28.6	
20 LOG 32	30.1	30./	
# of elements			
DIFFERENCE	-1.0	-1.5	

VRRAY GAIN

MRA SNR	26.9	33.9	
MEAN OMNI SNR	15.4	19.9	
ARELLY GAIN	11,5	14.0	
THEORETICAL ARMUTH GAIN (at MRA)	13.5	15.3	
DIFFERENCE	-2.0	-/.3	

CONFIDENTIAL

ATTEN:-24 DB WTG: HANNING INDE X 3000 INTEGRATION TIME 320 SECS FILTER REEL: F33 DATE/TIME: 2-7-77 - 2033 Z ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: CONTROL: 2033 - 32 (DPE) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ SECRET

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3/2 3/

DATE/TIME: 2-7-77 - 2033 Z ANALYSIS BANDWIDTH: 1/10HZ DATE OF ANALYSIS: CONTROL: 2013 - 32 (DPC)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 150 HZ

ATTEN: -34 DB INDE X 3000 WTG: HANNING INTEGRATION TIME 320 SECS FILTER REEL: E33

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	DATE/TIME: 2.777 - 2013 2 ANALYSIS BANDWIDTH: 1/10HZ #10 DEC. AZ STEERING
CONTROL: 2033 - 32 (DPC) EEAMFORMED SPECTRUM/ELEMENIS	EXERCISE: BEARING STAFE CENTER FREQ: 150 HZ 32 ELEMENTS

SECRET SECRET

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DATE DATE/ ANALY #12		
CONTROL: 2033 - 32 (DPC) BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTUR PREQ: 150 HZ 32 ELEMENTS	SECRET	

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ATTEN: -34 DB WTG: HANNING INDE X 3000 INTEGRATION TIME 320 SECS FILTER REEL: F33 1 | DATE/TIME: Z-7-77 - 2033 2 ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2033 - 7 = (DP+)
BEAMPORMED SPECTRUM(ELEMENTS
EXERCISE: BEAKING STAKE CENTER FREQ: 150 HZ

S /-26 g 29-34) DATE OF ANALYSIS: INTEGRATION TIME 320 SECS ATTEN ANALYSIS BANDWIDTH: 1/10H2 ANALYSIS BANDWIDTH: 1/10H2 #/6 DEG. AZ STEERING	SEGRE		
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CONTROL: 2°73 - 7° (0°C) BEAMPORMED SPECTSUM(ELLMEN EXERCISE: BEAKING STAFE GENTER PREQ: 15° HZ Z - ELLEMENTS) LEMENTO 7.46 4 29-3 E. NATE/TIME: 2 ANALYSIO BA 4/8 DEG.	117515: 37 2-277 - 2623 2 RDWIDTH:1/10HZ AZ STEERING	HTECRATION TIME	320 SECS FILTER	ATTEN: -34 DE WTG: HANNING
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ATTEN: -34 DE WTG: HANNING INDE X 200-SECRET INTEGRATION TIME 320 SECS PLITER REEL: F33 DATE OF ABALYSIS: CONTRUL: 2023 - 32 (5P6) BEARFORNED SPECIFUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREG: 150

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ANALYSIS BANDWIDTH: 1/10HZ
+8 DEG. AZ STEERING DATE OF ANALYSIS: CONTROL: 2033 - 72 (DP6)
BEAMFORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 300 HZ SECRET

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BEAMFORMED SPECTRUM ELEMENTS
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BEAMPORMED SPECTRUM(ELEMENTS EXERCISE: BEARING STAKE CENTER FREQ: 280 HZ

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RELEMENTS DATE OF ANALYSIS: REEL
CONTROL: 2013 - 32 (DP) BEAMFORMED SPECTRUM (ELEMENTS) EXERCISE: BEARING STARE GENTER PREQ: 150 HZ 32 ELEMENTS

INDE X 3000

REEL: F23

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ATTEN: -2 DB WTG: HANNING SECRET INTEGRATION TIME 320 SECS FILTER ANALYSIS BANDWIDTH: 1/10HZ DEG. AZ STEERING GENTER PREQ: 260 HZ

CONTROL: 2022 - 33 (DPC) BEAMFORMED SPECTRUM(ELEMENTS

EXERCISE: BEARING STAKE

CONFIDENTIAL

CALCULATIONS

DATA POINT (

FREQUENCY 140 HZ

NUMBER OF ELEMENTS 5/

SIGNAL LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER GAIN

MRA CORRECTION

+10

+7.2 SIG. LEVEL FOR SNR CALCULATION

+7.4 SIG. LEVEL FOR SIGNAL GAIN

NOISE LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

MCPS-32 CAL. CORRECTION

BEAMFORMER CAIN

-16.8 -51.8 -24.8 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-PATTO

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SIGNAL LEVEL FOR SNR

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30.2 SNR 1/10 HZ BAND

22 SNR I HZ BAND

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SIGNAL LEVEL AND SNR

CALCULATIONS

DATA POINT 6

FREQUENCY 290 HZ

NUMBER OF ELEMENTS 5/

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MCPS-32 CAL. CORRECTION

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BEAMFORMER GAIN

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MRA CORRECTION

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NOISE LEVEL

MCPS-32 SIGNAL LEVEL INDICATED

-69.9

MCPS-32 CAL. CORRECTION

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-29.8 NOISE LEVEL FOR SMR CALCULATION

SIGNAL-NOISE-RATIO

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MRA CORRECTION

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32.5 SNR 1/10 HZ BAND

BANDWIDTH CONVERSION

PROCESSOR CORRECTION

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24.3 SNR 1 HZ BAND

CONFIDENTIAL

CONFIDENTIAL DATA POINT 6

SIGNAL GAIN

	140 HZ	290HZ	295HZ
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# of elements			
DIFFERENCE	- 2.0	-4.4	

ARRAY GAIN

MRA SNR	30.2	72.5	
MEAN OMNI SNR	15.4	19.9	
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THEORETICAL AZMUTH GAIN (at MRA)	15.5	17.5	
DIFFERENCE	7	- 4.9	

CONFIDENTIAL

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DEPARTMENT OF THE NAVY

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Ref:

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- 2. The LRAPP documents listed in enclosure (1) have been downgraded to UNCLASSIFIED and have been approved for public release. These documents should be remarked as follows:

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Unavailable	Bossard, David C.	ACOUSTIC ANALYSIS/ASEPS	Wagner Associates	780726	ADA076268	n
NRLMR3832	Heitmeyer, R., et al.	PRELIMINARY RESULTS OF AN ANALYSIS OF BEAM NOISE IN THE MEDITERRANEAN (U)	Naval Research Laboratory	780901	AC SID 220	n
Unavailable	Watrous, B. A.	PARKA 1 OCEANOGRAPHIC DATA COMPENDIUM	Naval Ocean R&D Activity	781101	ADB115967	U
Unavailable	Dunbar, B., et al.	LAMBDA PROCESSING LABORATORY AND ENGINEERING SUPPORT, FINAL REPORT 1 JANUARY 1977 - 31 OCTOBER 1978	Texas Instruments, Inc.	781129	ND	n
Unavailable	Blumen, L. S., et al.	ASTRAL MODEL. VOLUME 2: SOFTWARE IMPLEMENTATION	Science Applications, Inc.	790101	ADA956122	n
Unavailable	Spofford, C. W.	ASTRAL MODEL. VOLUME 1: TECHNICAL DESCRIPTION	Science Applications, Inc.	790101	ADA956124	n
Unavailable	Townsend, R., et al.	SELF-TENSIONING ACOUSTICAL HORIZONTAL LINE ARRAY (SPRAY) DATA ANALYSIS. FINAL REPORT OF BEARING STAKE TESTS JANUARY THRU MARCH 1977. VOLUME IA. OVERALL PROGRAM PERFORMANCE RESULTS WITH TEST RESULTS SUMMARY	Sanders Associates, Inc.	790101	ADC017573	n
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